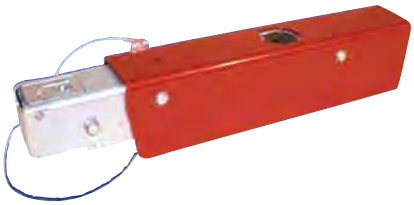
TRAILER COMPONENTS

- Electric/Hydraulic Brake Actuators
- Surge Actuators
- Disc Brakes
- Brake Clusters
- Brake Drums
- Brake Line Kits
- Couplers
- Hubs

TITAN

TITAN

We want Titan to be your choice for all your Brake, Actuator and High Speed Wheel & Tire Assembly needs. Our superior quality, competitive pricing and professional customer service makes Titan the choice for you.



Ultra-70 Surge Actuator (pg 18-20)

BrakeRite Actuator (pg 14-17)

Disc Brakes (pg 5-6)

Drum Brakes (pg 7-10)

Hubs & Drums (pg 11-12)

Hubs (pg 49)

Surge Actuators (pg 18-40)

Ball Couplers (pg 41)

Lunette Eyes & Hitches (pg 42)

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40 years of Leadership in Hydraulic Braking

Titan Brakes and Actuators

Originating under the DICO name, Titan has a rich heritage in the hydraulic brake and actuator industry. Many of the products in use today are based on our designs. We invented and held the first patent on free backing brakes and have led the way on a wide variety of innovations.

Titan's extensive line of brakes, actuators, couplers and hubs is designed to serve a wide variety of trailer applications. Manufacturers of boat, recreation vehicle, livestock, travel and flatbed trailers across North America rely on the performance of our products.

- Training Videos Available

Quality You Can Trust

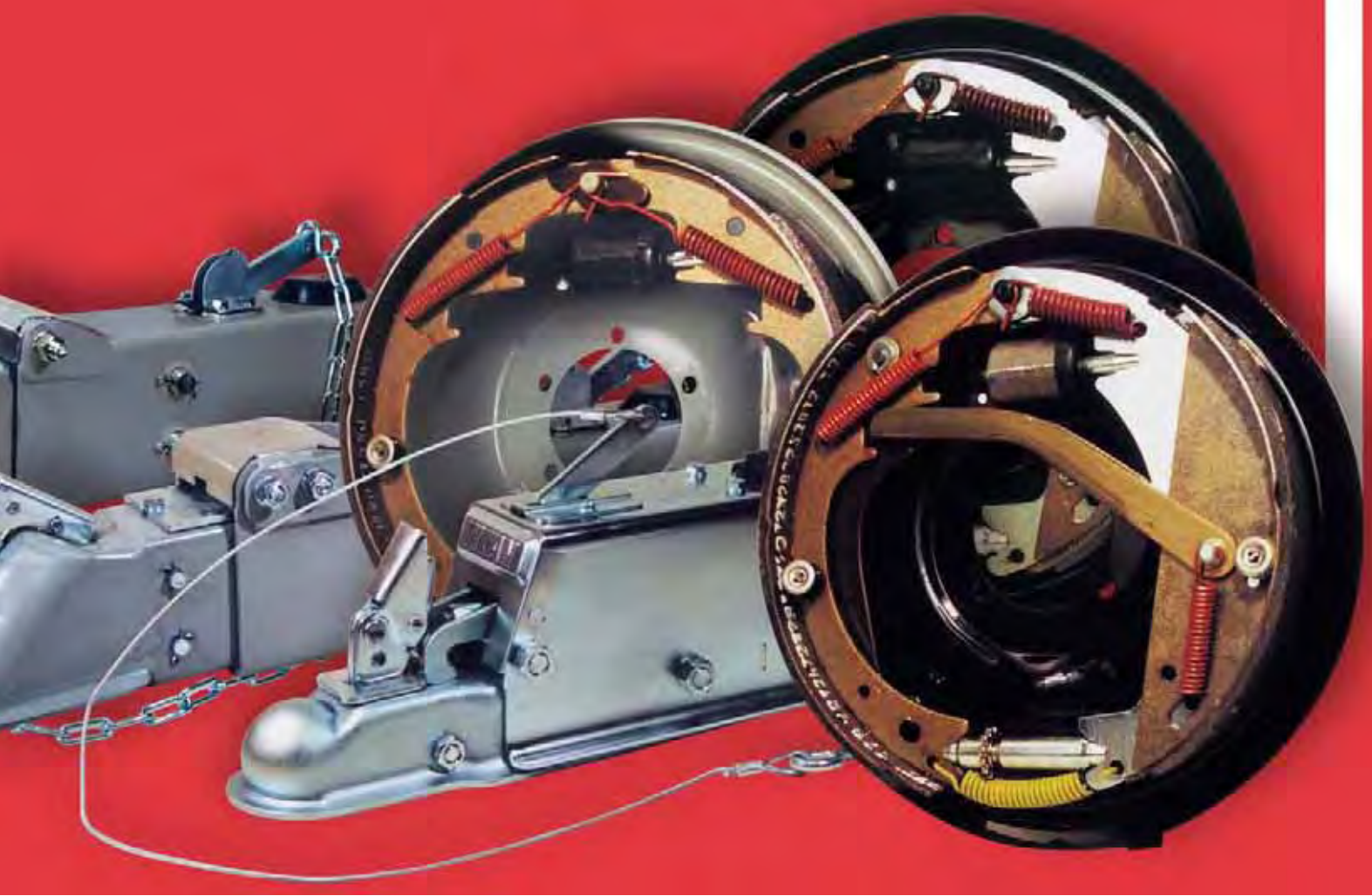
Titan uses the highest quality materials to ensure that our products meet the high demands of our customers. Our assembly plant, located in Des Moines, Iowa, has an ISO-9002 Quality System.

Customer Satisfaction

Titan is committed to achieving customer satisfaction through on-time delivery and by meeting the functional needs of our customers. Titan's trailer components are the perfect complement to the durable highway wheel and tire assemblies offered by Titan.

For more information, call:

800-832-8781



LIMITED WARRANTY

Limited Warranty Titan International (Titan) warrants its products (Brakes, Hubs, Drums, Surge Actuators, Ball Couplers, Lunette Eyes, Clevis Hitches, and Brake/Actuator Parts) to be free from defects in material and workmanship for one year from date of delivery to the original purchaser when properly installed, used and maintained by the purchaser. Titan International (Titan) warrants that the PREMIER BRAKE will be free from a corrosion-related failure of brake components for two years when properly installed, used and maintained.

This warranty does not apply to damage or loss caused by any or all of the following circumstances or conditions:

- Freight damage.
- Parts, accessories, materials or components not obtained from or approved in writing by TITAN.
- Misapplication, misuse and failure to follow the directions or observe cautions and warnings on installation, operation, application, inspection or maintenance specified in any TITAN quotation, acknowledgement, sales literature, specification sheet or installation instruction and service manual (“applicable literature”).

If any TITAN products are found upon TITAN’s examination to have been defective when supplied, TITAN will either: credit the purchaser’s account for the purchase price of the TITAN product; replace the TITAN product; or repair the product. TITAN has sole discretion in choosing which option to provide. For this LIMITED WARRANTY to apply, TITAN must receive notice of the alleged defect within 30 days of either the discovery of the alleged defect or the expiration of the warranty period, whichever is earlier. Any claim not made within this period shall conclusively be deemed waived.

If requested by TITAN, purchaser shall return the alleged defective product to TITAN for examination at TITAN’s direction and return expense. TITAN will not pay for expenses incurred in returning a product to TITAN without TITAN’s prior written authorization. TITAN shall not be liable for any other expenses purchaser incurs to remedy any defect. Purchasers waive subrogation on all claims under any insurance.

Limitation of Liability It is expressly agreed that the liability of TITAN is limited and TITAN does not function as an insurer. THE REMEDIES SET FORTH IN THIS WARRANTY SHALL CONSTITUTE THE EXCLUSIVE REMEDIES AVAILABLE TO THE PURCHASER OR USER AND ARE IN LIEU OF ALL OTHER REMEDIES, EXPRESS OR IMPLIED. THE LIABILITY OF TITAN, WHETHER IN CONTRACT, IN TORT, UNDER ANY WARRANTY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE OF THE PARTICULAR PRODUCT MANUFACTURED, SOLD OR SUPPLIED BY TITAN.

(limited warranty continues to next page)

To Obtain Technical Assistance To enable TITAN to respond to a request for assistance or evaluation of customer or user operating difficulty, please provide at a minimum the following information by calling **1-800-832-8781**:

- Model number, serial number and all other data on the specific component which appears to be involved in the difficulty.
- The date and from whom you purchased your TITAN product.
- State your difficulty, being sure to mention at least the following: Application, Nature of load involved, and Weight of the load.

Field Service If field service at the request of the purchaser is rendered and the difficulty is found not to be with TITAN's product, the purchaser shall pay the time and expense (at the prevailing rate at the time of service) of seller's field representative(s). Charges for service, labor and other expenses that have been incurred by the purchaser, its customer or agent without prior written authorization of TITAN will not be accepted.

TITAN EXTENDS NO WARRANTY, EXPRESS OR IMPLIED, ON PRODUCTS NOT MANUFACTURED BY TITAN OR TO TITAN'S DESIGN SPECIFICATION, INCLUDING BUT NOT LIMITED TO SUCH ITEMS AS NON-TITAN TIRES, BRAKES, ACTUATORS, BEARINGS, HOSE AND TUBING. PURCHASER'S RECOURSE SHALL BE LIMITED TO ANY WARRANTY OF THE RESPECTIVE MANUFACTURERS.

THIS WARRANTY EXCLUDES ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY PURPOSE.

THIS WARRANTY DOES NOT COVER NOR EXTEND TO INCIDENTAL OR CONSEQUENTIAL DAMAGE. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

No representative has authority to make any representation, promise or agreement except as stated in this Limited Warranty. TITAN reserves the right to make design and other changes upon its products without any obligation to install the same on any previously sold or delivered products.

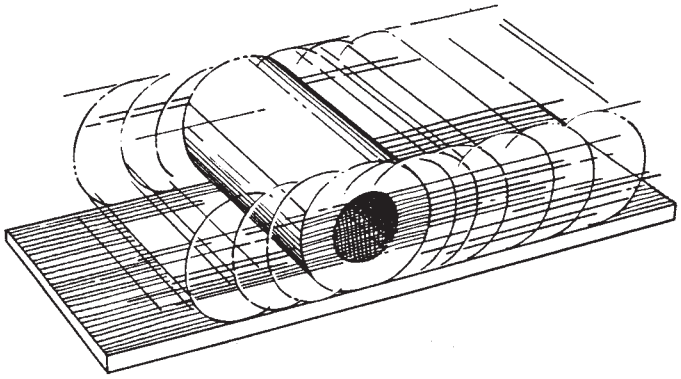
THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THOSE DESCRIBED ABOVE. EFFECTIVE JANUARY 1, 1998 THIS WARRANTY SUPERSEDES ALL PRIOR WARRANTIES, WRITTEN OR IMPLIED.

FOR WARRANTY CLAIMS CALL: 800-872-2327

Titan Distribution, Inc.
2345 East Market Street
Des Moines, IA 50317
PH: 800-832-8781 FAX: 515-265-9379

DESIGN FEATURES

ACTUATOR MOVEMENT



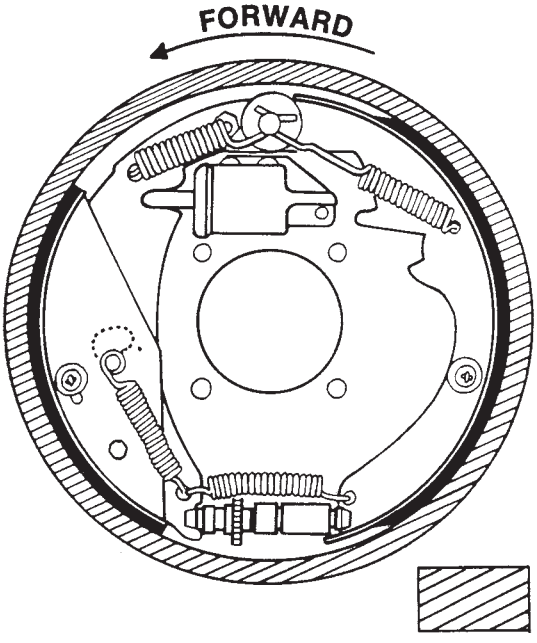
The straight line movement of the actuator is accomplished by using rollers to reduce resistance so that the kinetic energy of a loaded trailer can be translated into braking effort.

This design consists of a tubing assembly to meet applicable specifications for tongue load plus needed strength for side load. The side load strength is particularly to resist bending in jackknife situations.

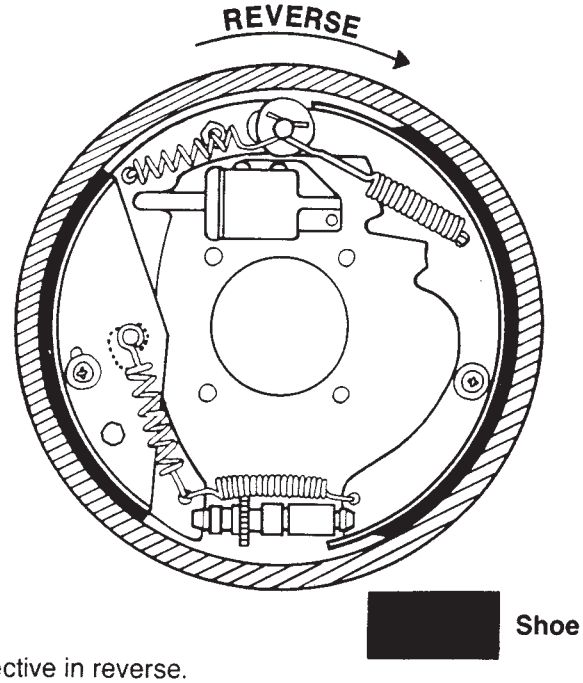
TITAN FREE BACKING BRAKES
ALLOWS YOU TO BACK UP WITH OUR BRAKING SYSTEM

HERE IS THE WAY IT WORKS:

As wheel revolves forward, outward movement of shoe lever engages brake shoe with drum providing full braking action.



As wheel moves in reverse, shoes turn with drum until lining pressure is released. Hydraulic pressure is contained by the cylinder.



Free backing brakes are not effective in reverse.

TITAN BRAKES

TITAN MANUFACTURES BRAKES FOR:

- Trailers towed by tongue or tow-bar.
- Self-propelled industrial vehicles and carts.
- Industrial machines and equipment that require brakes.
- Titan brakes are hydraulically operated by one of two means. They are motivated by the surge, or inertia of the trailer or electric over hydraulic.
- Titan surge brakes require no connection to the towing vehicle other than ball or clevis hitch. They operate automatically by the “PUSH” of the trailer against the towing vehicle and are applied in direct relationship to the deceleration rate of the towing vehicle.
- Corrosion resistant marine braking systems available (see PREMIER BRAKES on page 60 for details).

Brake Features:

- The trailer brakes are available on systems where surge, hydraulic and mechanical control is desired.
- In addition to the hydraulic controls, a separate cable (2385200) may be purchased to provide a parking brake. (see page 44)
- Free backing brakes are not effective if the trailer is moving in reverse during breakaway.

DISC BRAKES

3500 LB. DISC BRAKE AXLE SET PART NUMBERS

Part No.	Axle Capacity	Rotor Size	# of Bolts	Bolt Circle	Wheel Bolt Diameter	Flange Diameter	# of Flange Bolts	Fits Wheel Size	Qty. per Pallet	Weight-Axle Set (Lbs.)
4841400	3500 lbs.	10”	5	4.5”	1/2”	6.5”	4	14” and larger	35	52
4841400KIT	3500 lbs.	10”	5	4.5”	1/2”	6.5”	4	14” and larger	27	52

The part number with “KIT” suffix will have the components for one complete axle individually boxed. Hub/rotor, caliper and mounting bracket all silver cad plated.

DISC BRAKES

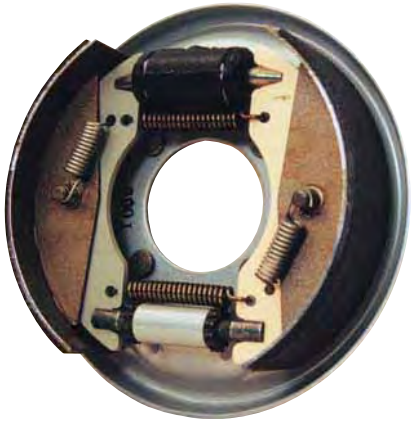
5200 LB. AND 6000 LB. DISC BRAKE AXLE SET PART NUMBERS

Part No.	Axle Capacity	Rotor Size	# of Bolts	Bolt Circle	Wheel Bolt Diameter	Flange Diameter	# of Flange Bolts	Fits Wheel Size	Qty. per Pallet	Weight-Axle Set (Lbs.)
TBD	5200 / 6000 lbs	12”	6	5.5”	1/2”	7.5”	5	15” and larger	30	61
TBD - KIT	5200 / 6000 lbs	12”	6	5.5”	1/2”	7.5”	5	15” and larger	27	61

The part number with “KIT” suffix will have the components for one complete axle individually boxed. Hub/rotor, caliper and mounting bracket all silver cad plated.

DRUM BRAKES

NOTE: Premier Brakes have 2-year Corrosion Warranty



8½" x 2¼" Freebacking Trailer Brake

The 8½" x 2¼" brake has 37 square inches of bonded lining. This brake is for use with Surg-O-Matic actuators and most 10", 12", and 13" wheels. Plus features are plated parts to resist corrosion and the exclusive patented DICO back-up feature. 3,000 lb. axle rating 60 SQ. IN. SWEPT AREA

Right/Left	Part No.	No. of Bolts	Bolt Circle	Center Hole Size	Description	Weight (Pounds)	Pallet Quantity	Standard Non-Standard
Right	4442000	4	4"	3"	GALPHORITE	9	60	*NON-STD
Left	4442100	4	4"	3"	GALPHORITE	9	60	*NON-STD

*Non-Standard clusters require minimum 8-week lead time and minimum quantity may be required.

10" x 2¼" Trailer Brake

The 10" x 2¼" brake has 44 square inches of lining. This brake is to be used with Surg-O-Matic actuators and with 13", 14" and 15" wheels. Uni-Servo brakes have 20% braking in reverse. GALPHORITE (MARINE) BRAKES AVAILABLE FOR GREATER CORROSION RESISTANCE. See page 63.

10" Premier Freebacking

3,750 lb. axle rating 71 SQ. IN. SWEPT AREA

Right/Left	Part No.	No. of Bolts	Bolt Circle	Center Hole Size	Description	Weight (Pounds)	Pallet Quantity	Standard Non-Standard
Right	4423400	4	4"	3"	GALPHORITE	10	50	STD
Left	4423500	4	4"	3"	GALPHORITE	10	50	STD

10" Premier Freebacking Box Kit

Contains one (1) right (4423400) and one (1) left (4423500) brake assembly packaged together in a single box.

Box Kit Part Number: **4847000KIT**

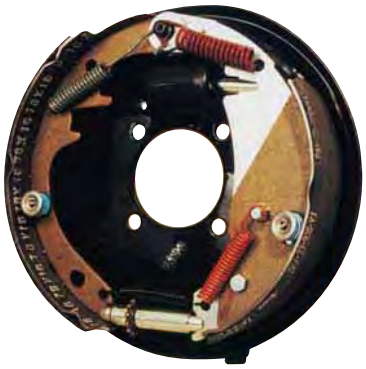
10" Premier Freebacking with Park Brake

3,750 lb. axle rating 71 SQ. IN. SWEPT AREA

Right/Left	Part No.	No. of Bolts	Bolt Circle	Center Hole Size	Description	Weight (Pounds)	Pallet Quantity	Standard Non-Standard
Right	4423600	4	4"	3"	GALPHORITE	10	50	*NON-STD
Left	4423700	4	4"	3"	GALPHORITE	10	50	*NON-STD

*Non-Standard clusters require minimum 8-week lead time and minimum quantity may be required.

10” x 2¼” Premier Uni-Servo



3,750 lb. axle rating 71 SQ. IN. SWEPT AREA

Right/Left	Part No.	No. of Bolts	Bolt Circle	Center Hole Size	Description	Weight (Pounds)	Pallet Quantity	Standard Non-Standard
Right	4445300	4	4”	3”	GALPHORITE	10	50	STD
Left	4445400	4	4”	3”	GALPHORITE	10	50	STD

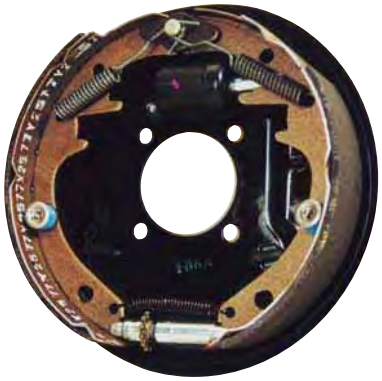
10” x 2¼” Standard Freebacking

3,750 lb. axle rating 71 SQ. IN. SWEPT AREA

Right/Left	Part No.	No. of Bolts	Bolt Circle	Center Hole Size	Description	Weight (Pounds)	Pallet Quantity	Standard Non-Standard
Right	4071500	4	4”	3”	BLACK	10	50	STD
Left	4071600	4	4”	3”	BLACK	10	50	STD
Right	4522800	4	4”	3”	GALVANIZED	10	50	*NON-STD
Left	4522900	4	4”	3”	GALVANIZED	10	50	*NON-STD

*Non-Standard clusters require minimum 8-week lead time and minimum quantity may be required.

10” x 2¼” Uni-Servo Non-Premier



3,750 lb. axle rating 71 SQ. IN. SWEPT AREA

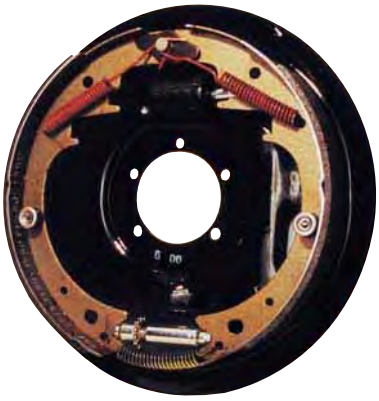
Right/Left	Part No.	No. of Bolts	Bolt Circle	Center Hole Size	Description	Weight (Pounds)	Pallet Quantity	Standard Non-Standard
Right	1878700	4	4”	3”	BLACK	10	50	STD
Left	1878800	4	4”	3”	BLACK	10	50	STD

10”x 2¼” Uni-Servo Non-Premier Box Kit

Contains one (1) right (1878700) and one (1) left (1878800) brake assembly packaged together in a single box.

Box Kit Part Number: **4847100KIT**

12” x 2” Trailer Brake



The 12” x 2” brake has 46 square inches of lining. This brake is to be used with Surg-O-Matic actuators and with 14.5”, 15” and 16” wheels. Uni-Servo brakes have 20% braking in reverse. GALPHORITE (MARINE) BRAKES AVAILABLE FOR GREATER CORROSION RESISTANCE. See page 63.

12” x 2” Uni-Servo Trailer Brake

6,000 lb. axle rating 75 SQ. IN. SWEPT AREA

Right/Left	Part No.	No. of Bolts	Bolt Circle	Center Hole Size	Description	Weight (Pounds)	Pallet Quantity	Standard Non-Standard
Right	2351000	5	3⅞”	3¼”	BLACK	13	30	STD
Left	2351100	5	3⅞”	3¼”	BLACK	13	30	STD

12” x 2” Uni-Servo Trailer Brake with Parking Brake

6,000 lb. axle rating 75 SQ. IN. SWEPT AREA

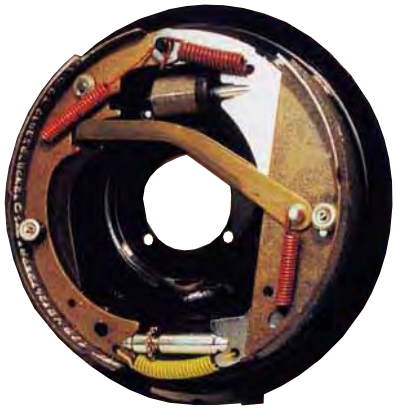
Right/Left	Part No.	No. of Bolts	Bolt Circle	Center Hole Size	Description	Weight (Pounds)	Pallet Quantity	Standard Non-Standard
Right	2351200	5	3⅞”	3¼”	BLACK	14	30	*NON-STD
Left	2351300	5	3⅞”	3¼”	BLACK	14	30	*NON-STD

*Non-Standard clusters require minimum 8-week lead time and minimum quantity may be required.

12” x 2” Standard Freebacking Trailer Brake

6,000 lb. axle rating 75 SQ. IN. SWEPT AREA

Right/Left	Part No.	No. of Bolts	Bolt Circle	Center Hole Size	Description	Weight (Pounds)	Pallet Quantity	Standard Non-Standard
Right	4202800	5	3⅞”	3¼”	BLACK	15	30	STD
Left	4202900	5	3⅞”	3¼”	BLACK	15	30	STD



12” x 2” Standard Freebacking with Parking Brake

6,000 lb. axle rating 75 SQ. IN. SWEPT AREA

Right/Left	Part No.	No. of Bolts	Bolt Circle	Center Hole Size	Description	Weight (Pounds)	Pallet Quantity	Standard Non-Standard
Right	4203000	5	3⅞”	3¼”	BLACK	17	30	*NON-STD
Left	4203100	5	3⅞”	3¼”	BLACK	17	30	*NON-STD

*Non-Standard clusters require minimum 8-week lead time and minimum quantity may be required.

12” x 2” Galvanized Freebacking

6,000 lb. axle rating 75 SQ. IN. SWEPT AREA

Right/Left	Part No.	No. of Bolts	Bolt Circle	Center Hole Size	Description	Weight (Pounds)	Pallet Quantity	Standard Non-Standard
Right	4523200	5	3⅞”	3¼”	GALVANIZED	15	30	*NON-STD
Left	4523300	5	3⅞”	3¼”	GALVANIZED	15	30	*NON-STD

*Non-Standard clusters require minimum 8-week lead time and minimum quantity may be required.

12” x 2” Premier Freebacking Trailer Brake

6,000 lb. axle rating 75 SQ. IN. SWEPT AREA

Right/Left	Part No.	No. of Bolts	Bolt Circle	Center Hole Size	Description	Weight (Pounds)	Pallet Quantity	Standard Non-Standard
Right	4489500	5	3⅞”	3¼”	GALPHORITE	15	30	STD
Left	4489600	5	3⅞”	3¼”	GALPHORITE	15	30	STD

12”x 2” Premier Freebacking Box Kit

Contains one (1) right (4489500) and one (1) left (4489600) brake assembly packaged together in a single box.

Box Kit Part Number: **4847200KIT**

12” x 2” Standard Duo-Servo without Parking Brake

6,000 lb. axle rating 75 SQ. IN. SWEPT AREA

Right/Left	Part No.	No. of Bolts	Bolt Circle	Center Hole Size	Description	Weight (Pounds)	Pallet Quantity	Standard Non-Standard
Right	2349000	5	3⅞”	3¼”	BLACK	13	30	*NON-STD
Left	2349100	5	3⅞”	3¼”	BLACK	13	30	*NON-STD

*Non-Standard clusters require minimum 8-week lead time and minimum quantity may be required

13” x 2½” Freebacking Trailer Brake

The 13” x 2¼” hydraulic brake has 65 square inches of lining. It is for use with Surg-O-Matic actuators and 15” and larger wheels.
6,500 lb. axle rating 102 SQ. IN. SWEPT AREA

Right/Left	Part No.	No. of Bolts	Bolt Circle	Center Hole Size	Description	Weight (Pounds)	Pallet Quantity	Standard Non-Standard
Right	0965100	4	4.8”	3.9”	BLACK	23	30	STD
Left	0965200	4	4.8”	3.9”	BLACK	23	30	STD

13” x 2½” Duo-Servo with Special Cylinder Cups

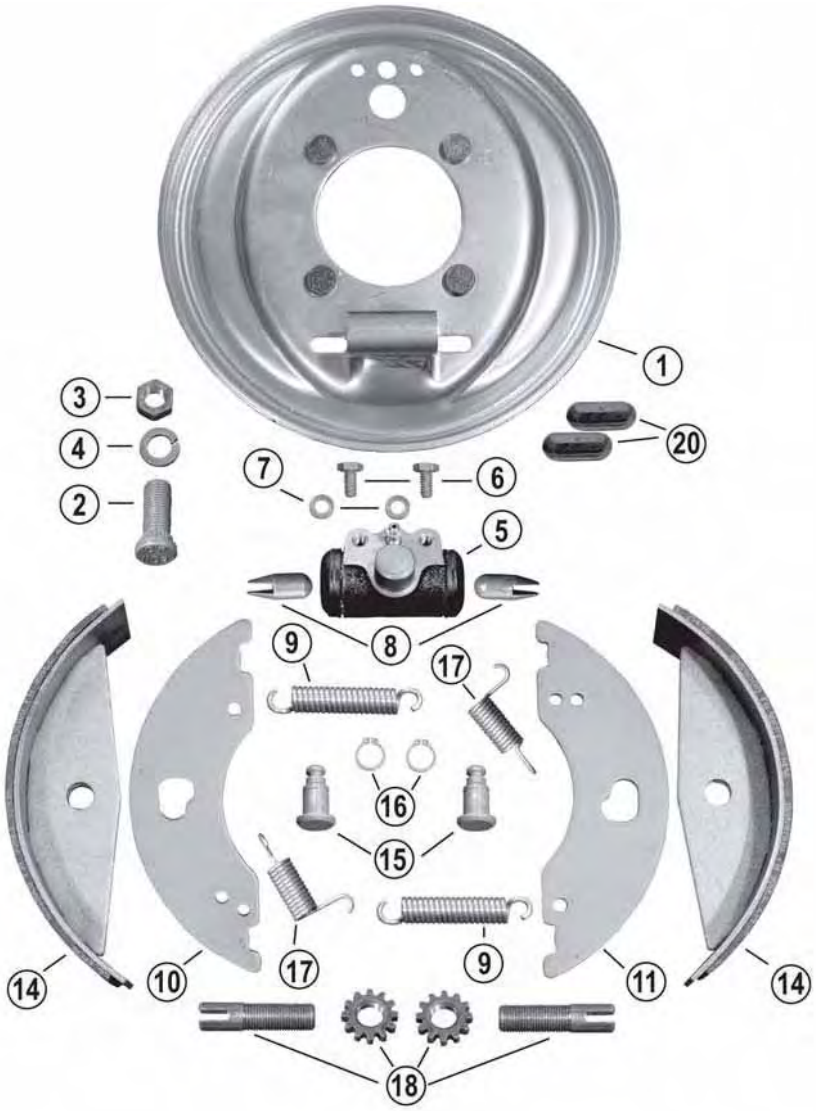
For use with High Pressure Hydraulic Oil only.
Operate in both forward and reverse direction.

Right/Left	Part No.	No. of Bolts	Bolt Circle	Center Hole Size	Description	Weight (Pounds)	Pallet Quantity	Standard Non-Standard
*Right	4718600	4	4.8”	3.9”	BLACK	22	30	*NON-STD
*Left	4718700	4	4.8”	3.9”	BLACK	22	30	*NON-STD

*For high pressure hydraulic systems

*Non-Standard clusters require minimum 8-week lead time and minimum quantity may be required

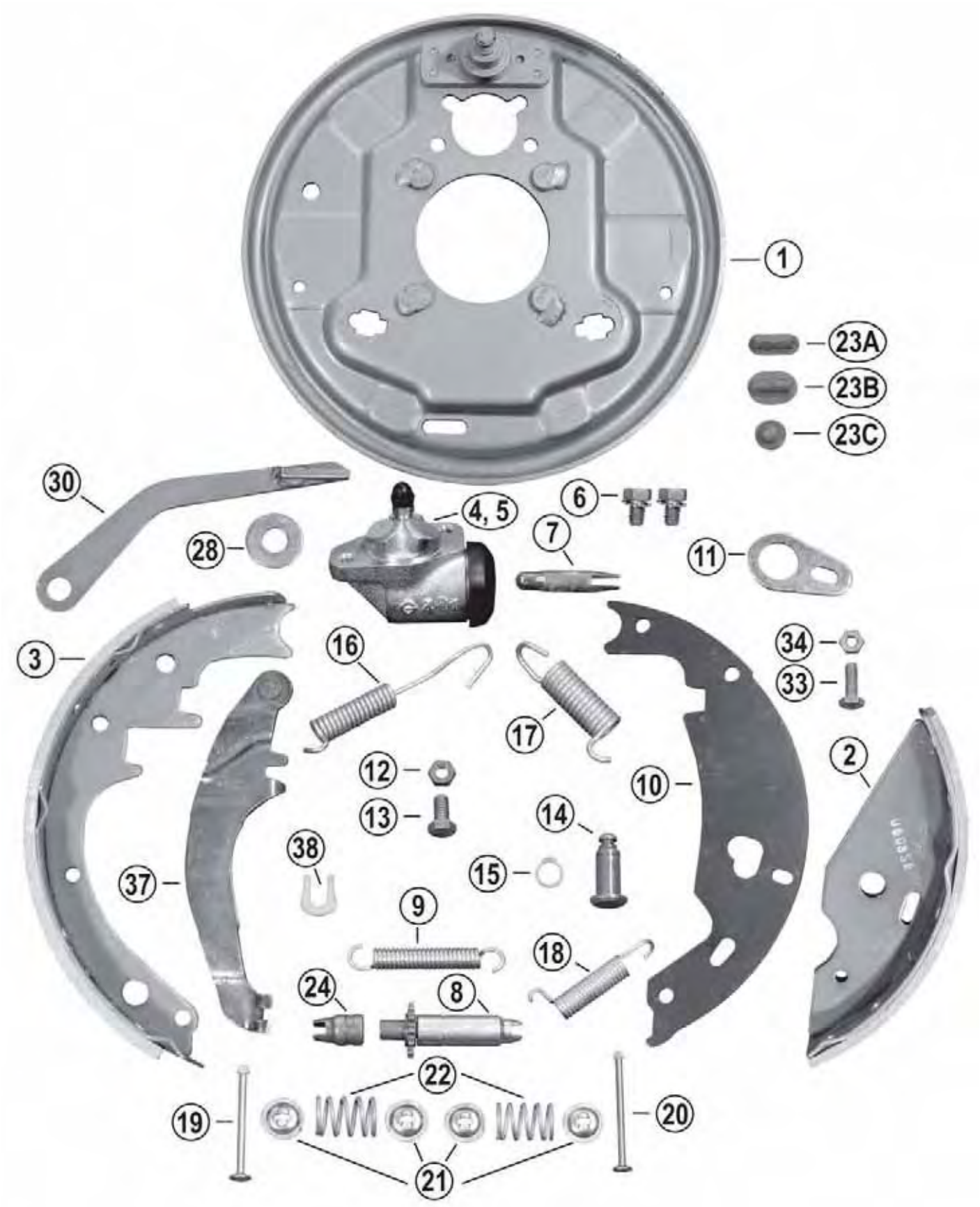
8 1/2” FREE BACKING DRUM BRAKE PARTS DIAGRAM and PARTS LIST



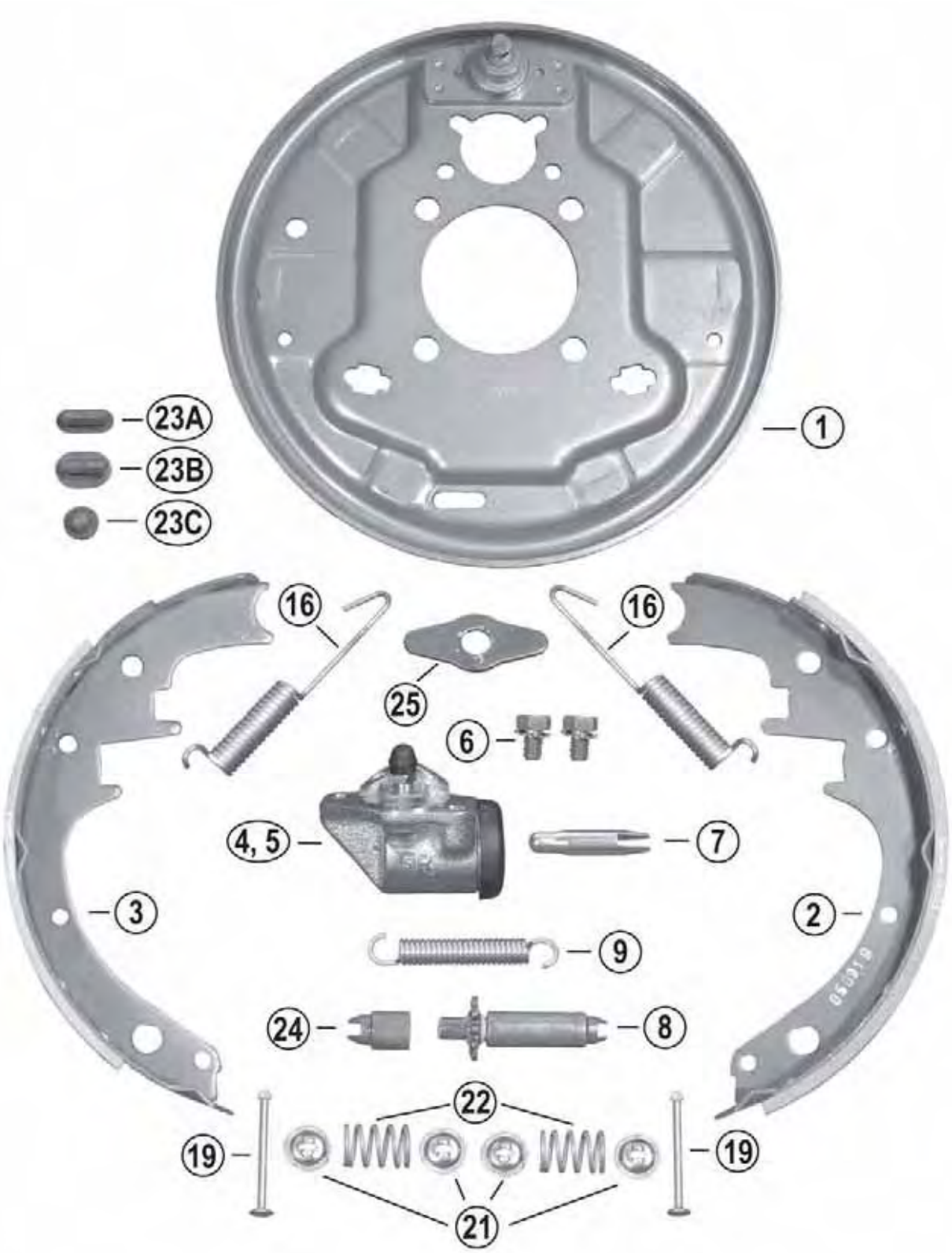
Ref. No.	Part Number	Description	Quantity
	4442000	Complete Brake - Right Hand	
	4442100	Complete Brake - Left Hand	
1	4464401410	Backplate	1
2	4743300	Stud bolt, 7/16 - 20 X 5/8" long	4
3	4440000	Hex nut, 7/16 - 20	4
4	4439600	Lockwasher, 7/16 - 20	4
5	0681700	Wheel cylinder	1
6	4465400	Bolt, 1/4 - 20 X 1/2" long	2
7	4465500	Lockwasher, 1/4"	2
8	4465300	Push rod	2
9	4465600	Spring, lever	2
*	4464600	Rear Brake Shoe/Lever Assembly	
*10	4464800317	Shoe Lever, rear, free backing	1
*14	1235900	8.5" Freebacking Brake Shoe	1
*15	1256000184	Anchor pin	1
*16	0777801184	Retaining ring, plated	1
**	4464700	Front Brake Shoe/Lever Assembly	
**11	4464900317	Shoe Lever, front, free backing	1
**14	1235900	8.5" Freebacking Brake Shoe	1
**15	1256000184	Anchor pin	1
**16	0777801184	Retaining ring, plated	1
17	4465700	Spring, brake shoe	2
18	4465000	8.5" adjusting screw assembly	2
20	0925400	Dust plug, rubber	2

Note: (*) and (**) indicate the parts contained in the front and rear brake shoe assy. kits.

10” FREE BACKING DRUM BRAKE PARTS DIAGRAM
(REFER TO PARTS LIST ON PAGE 13)



10” UNI-SERVO DRUM BRAKE PARTS DIAGRAM
(REFER TO PARTS LIST ON PAGE 13)



10” DRUM BRAKE PARTS LIST
(REFER TO DIAGRAMS ON PAGE 11 & 12)

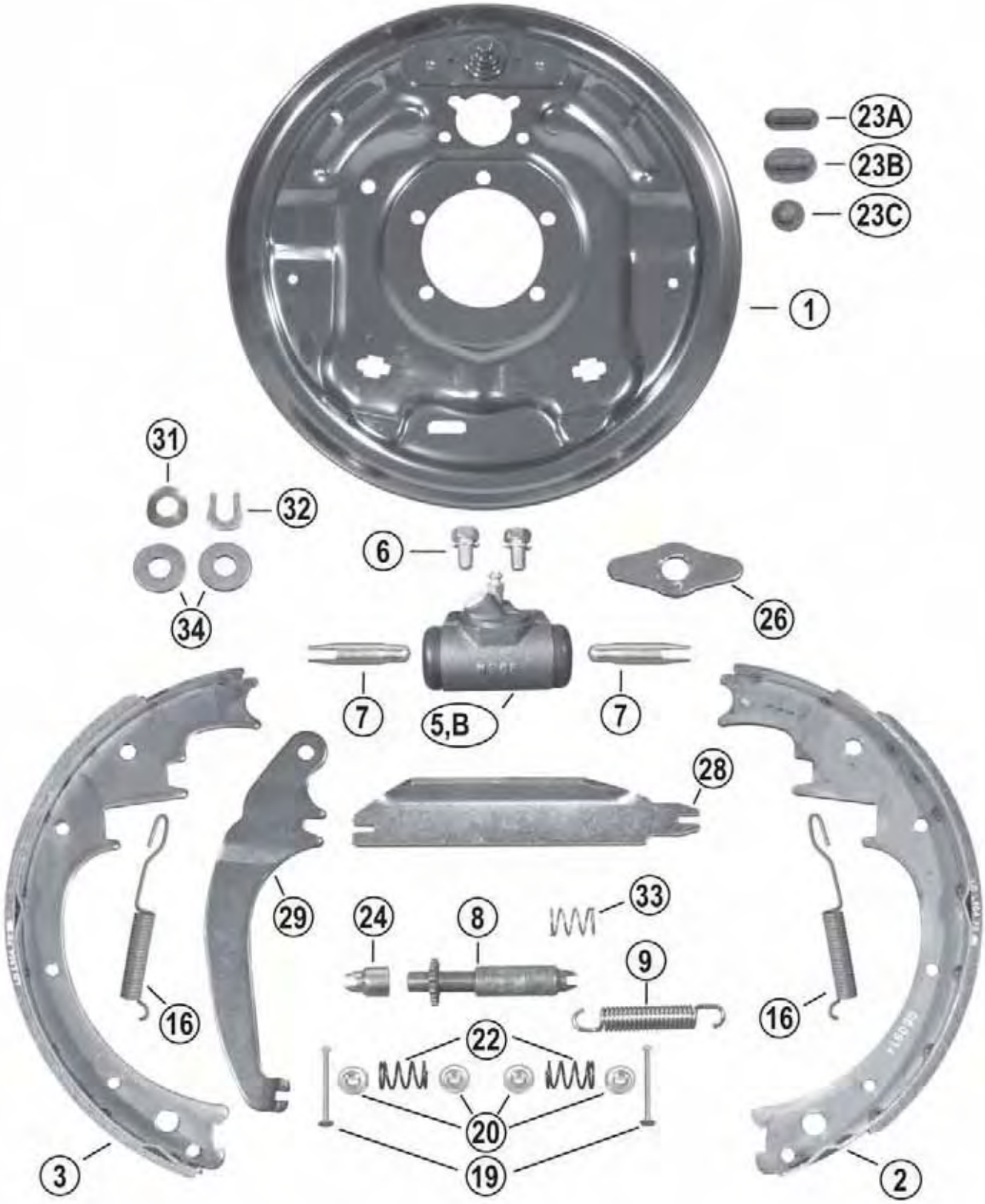
Item No.	Part Number	Part Description	Premier Free Backing	Premier Uni Servo	Galvanized Free Backing	Galvanized Free Backing	Galvanized Uni Servo
		Complete Brake w/o Parking Brake-Right	4423400	4445300	4522800	4071500	1818700
		Complete Brake w/o Parking Brake-Left	4423500	4445400	4522900	4071600	1818800
		Complete Brake w/Parking Brake-Right	4423600				
		Complete Brake w/Parking Brake-Left	4423700				
1	2463600042	Back Plate, painted black				1	1
1	2463650	Back Plate, galvanized			1		
1	2463600410	Back Plate, painted 410 silver	1	1			
2A	4437100	Front Shoe, riveted, free backing	1		1		
2A	1791000	Front Shoe, bonded, free backing				1	
2B	4445900	Front Shoe, riveted		1			
2B	1095200	Front Shoe, bonded					1
3A	1095300	Secondary Shoe, bonded				1	1
3B	4437200	Secondary Shoe, riveted	1	1	1		
4	0977600	Wheel Cylinder, Right, shown, greased & plated	1	1	1	1	1
5	0977700	Wheel Cylinder, Left, not shown, greased & pltd	1	1	1	1	1
6	0977800	Cap Screw & lock washer, zinc plated				2	2
6	4439700	Cap Screw & lock washer, olive drab	2	2	2		
7	0978300	Push Rod, zinc plated				1	1
7	4437700	Push Rod, olive drab	1	1	1		
8	4437500	Adjusting Screw Assembly	1	1	1	1	1
9	1095700	Spring-Adjusting Screw				1	1
9	4438400	Spring-Adjusting Screw, stainless steel	1	1	1		
10	1095600	Socket, adjusting screw, zinc				1	1
10	4437600	Socket, adjusting screw, olive drab	1	1	1		
11	1791700183	Travel Link, zinc plated				1	
11	1791700184	Travel Link, olive drab	1		1		
12	1740600	Locknut, 5/16 - 18, zinc plated				1	
12	4424800	Locknut, 5/16 - 18, olive drab	1		1		
13	0794900	Bolt, 5/16 - 18 x 5/8", zinc plated				1	
13	4424700	Bolt, 5/16 - 18 x 5/8", olive drab	1		1		
13	1256000183	Anchor pin, zinc, w/o parking brake				1	
14	1256000184	Anchor pin, olive drab, w/o parking brake	1		1		
14	4438300	Anchor pin, olive drab, w/parking brake	1				
15	0777801184	Retaining ring, plated	1		1	1	
16	1095800	Spring, rear shoe return				1	2
16	4438500	Spring, stainless, rear shoe return	1	2	1		
17	0978500	Spring, front shoe lever				1	
17	4438600	Spring, stainless, front shoe lever	1		1		
18	0681400	Spring, lower free backing shoe				1	
18	4438700	Spring, S.S., lower free backing shoe	1		1		
19	1095900	Pin, shoe hold down, #8, stainless steel	1	2	1	1	2
20	0978800	Pin, shoe hold down, #1, stainless steel	1		1	1	
21	0978900	Cup, stainless steel, shoe hold down	4	4	4	4	4
22	1096000	Spring, hold down				2	2
22	4438800	Spring, stainless steel, hold down	2	2	2		
23A	2475700	Plug, adjusting screw slot	1	1	1	1	1
23B	4744600	Plug, parking brake opening	2	2	2	2	2
23C	4745900	Plug, flush kit hole	1	1	1	1	1
24	4720800183	Shoe Lever, plated				1	
24	4720800317	Shoe Lever, painted	1		1		
25	1895000	Washer, zinc plated				1	
25	4439500	Washer, olive drab	1		1		
26	4446000	Shoe guide plate		1			1
27	1050800	Bolt, 1/4 - 20 x 3/4", zinc				1	
27	4424900	Bolt, 1/4 - 20 x 3/4", olive drab	1	1	1		
28	4070700	Lock Nut, 1/4 - 20, olive drab	1		1	1	
*29	4439200	Parking Brake Lever w/pin, Right Hand, shown	1				
*29	4439300	Parking Brake Lever w/pin, Left Hand	1				
*30	4364800	Toggle Link, Right Hand, shown	1				
*30	4364900	Toggle Link, Left Hand	1				
*32	0979500	Retainer	1				
*33	4743300	Mounting bolt, 7/16" - 20 NF	4				
*34	4440000	Hex nut, 7/16" - 20	4				
*35	4439600	Lockwasher, 7/16" standard	4				
	1584500	Wheel Cylinder Repair Kit	1	1	1	1	1
	4744800	Premier Brake Shoe Kit, 10" free backing	1		1		
	4748403	Left Hand Premier F. B. Shoe Assembly	1		1		
	4748404	Right Hand Premier F.B. Shoe Assembly	1		1		
	4742700	Uniservo Premier Brake Shoe Kit		1			
	4043100	Uniservo Bonded Brake Shoe Kit					1
	4748401	Left Hand Bonded F.B. Shoe Assembly				1	
	4748402	Right Hand Bonded F.B. Shoe Assembly				1	

* Used on product with parking brakes.

12” FREE BACKING DRUM BRAKE PARTS DIAGRAM
(REFER TO PARTS LIST ON PAGE 17)

12” UNI-SERVO DRUM BRAKE PARTS DIAGRAM
(REFER TO PARTS LIST ON PAGE 17)

12” DUO-SERVO DRUM BRAKE PARTS DIAGRAM
(REFER TO PARTS LIST ON PAGE 17)

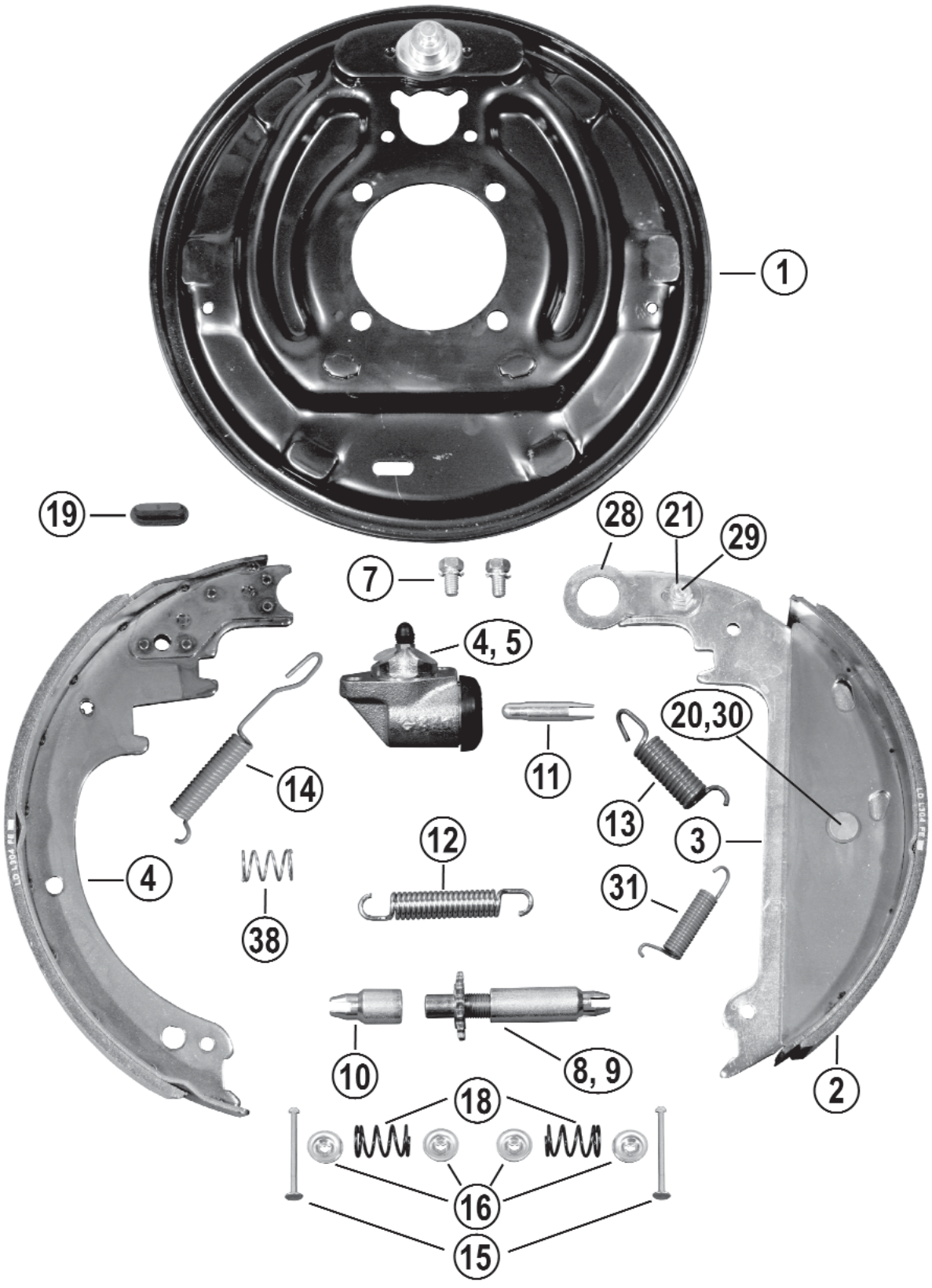


12” DRUM BRAKE PARTS LIST
(REFER TO DIAGRAMS ON PAGE 14,15 & 16)

Item No.	Part Number	Part Description	Premier Free Backing	Galvanized Free Backing	Free Backing	Uni Servo	Duo Servo
		Complete Brake w/o Parking Brake-Right	4489500	4523200	4202800	2351000	2349000
		Complete Brake w/o Parking Brake-Left	4489600	4523300	4202900	2351100	2349100
		Complete Brake w/Parking Brake-Right			4203000	2351200	
		Complete Brake w/Parking Brake-Left			4203100	2351300	
1	4485900042	Back Plate, painted black			1	1	1
1	4485950	Back Plate, galvanized		1			
1	4485900410	Back Plate, painted 410 silver	1				
2A	1849700	Front Shoe, bonded, free backing			1		
2A	4484500	Front Shoe, riveted, free backing	1	1			
2B	2349200	Front Shoe, bonded				1	
3A	1850300	Secondary Shoe, bonded			1	1	2
3B	4484800	Secondary Shoe, riveted	1	1			
4A	0977600	Wheel Cylinder, Right Hand	1	1	1	1	
4B	0977700	Wheel Cylinder, Left Hand, not shown	1	1	1	1	
5A	1718500	Wheel Cylinder, Duo Servo, Right Hand					1
5B	1718600	Wheel Cylinder, Duo Servo, Left Hand					1
6	2345700	Cap Screw & lock washer, zinc plated		2	2	2	2
6	4484900	Cap Screw & lock washer, olive drab	2				
7	0978300	Push Rod, zinc plated			1	1	2
7	4437700	Push Rod, olive drab	1	1			
8	2332300	Adjusting Screw Assembly				1	1
8	4485400	Adjusting Screw Assembly	1	1	1		
9	0978400	Spring-Adjusting Screw			1	1	1
9	4485000	Spring-Adjusting Screw, stainless steel	1	1			
10	4622400317	Shoe Lever, painted	1	1			
11	1791700183	Travel Link, zinc plated			1		
11	1791700184	Travel Link, olive drab	1	1			
12	1740600	Locknut, 5/16 - 18, zinc plated			2		
12	4424800	Locknut, 5/16 - 18, olive drab	2	2			
13	0794900	Hex cap screw, 5/16 - 18 x 5/8"			1		
13	4424700	Hex cap screw, 5/16 - 18 x 5/8"	1	1			
14	1256000184	Anchor pin, olive drab, w/o parking br.	1	1			
14	0979600	Anchor pin, olive drab, w/parking brake			1		
15	0777801184	Retaining ring, plated	1	1	1	1	
16	4485100	Spring, stainless, rear shoe return	1	1			
16	0978600	Spring, rear shoe return			1	1	2
17	0978500	Spring, front shoe lever			1		
17	4438600	Spring, stainless, front shoe lever	1	1			
18	0681400	Spring, free backing shoe			1		
18	4438700	Spring, stainless, free backing shoe	1	1			
19	1850800	Pin, shoe hold down	1	1	1	2	2
20	0978900	Cup, stainless steel, shoe hold down	4	4	4	4	4
21	0979000	Spring, hold down			1		
21	4485200	Spring, stainless steel, hold down	1	1			
22	0979100	Spring, hold down			1	2	2
22	4438800	Spring, stainless steel, hold down	1	1			
23A	2475700	Plug, adjusting screw slot	1	1	1	1	1
23B	4744600	Plug, parking brake opening	2	2	1	1	2
23C	4745900	Plug, flush kit hole	1	1	1	1	1
24	1883600	Socket, adjusting screw, zinc plated			1	1	1
24	4485700	Socket, adjusting screw, olive drab	1	1			
25	1895000	Washer, zinc plated			1		
25	4439500	Washer, olive drab	1	1			
26	4446000	Shoe guide plate				1	1
27	1297200	Hex cap screw, 5/16 - 18 x 3/4", zinc			1		
27	4485800	Hex cap screw, 5/16 - 18 x 3/4", olive	1	1			
*28	1719402184	Strut, Right Hand, to military spec				1	
*28	1719403184	Strut, Left Hand, to military spec				1	
*29	4486500	Parking Brake Lever w/pin, Right Hand			1	1	
*29	4486600	Parking Brake Lever w/pin, Left Hand			1	1	
*30	4486300	Toggle Link, Right Hand			1		
*30	4486400	Toggle Link, Left Hand			1		
*31	0979400	Spring Washer			1	1	
*32	0979500	Retainer			1	1	
*33	4499200	Spring, parking strut				1	
*34	4486900	Washer			2	2	
*	0912300	Hex Cap Screw, 3/8 - 24 x 1"			5		
*	0967000	Hex Nut, 3/8"			5		
*	0793300	Lockwasher, 3/8"			5		
	1564500	Wheel Cylinder Repair Kit	1	1	1	2	

* Used on product with parking brakes.

13” FREE BACKING DRUM BRAKE PARTS DIAGRAM
(REFER TO PARTS LIST ON PAGE 20)



13” DUO-SERVO DRUM BRAKE PARTS DIAGRAM
(REFER TO PARTS LIST ON PAGE 20)

13” DRUM BRAKE PARTS LIST
(REFER TO DIAGRAMS ON PAGE 18 & 19)

REF. NO.	TITAN PART NO.	DESCRIPTION	NO. REQUIRED PER ASSEMBLY		
			FREE BACKING	DUO SERVO	DUO SERVO
				Hydr Oil	Hydr Oil
					Hi Pressure
		Complete Brake - Right	0965100	1834500	4718600
		Complete Brake - Left	0965200	1834600	4718700
1	2473700042	Backplate Assembly	1	1	1
2	0973900	Brake Shoe, Front	1		
3	0974500	Shoe Lever	1		
4	0977500	Brake Shoe, Rear	1	2	2
5	0977600	Wheel Cylinder, Right, Greased and Painted	1		
5-A	1835000	Wheel Cylinder, Right, Duo Servo, Hydr Oil		1	
5-B	4719000	Wheel Cylinder, Right, Hi Press, Duo, Hydr			1
6	0977700	Wheel Cylinder, Left, Greased and Painted	1		
6-A	1835100	Wheel Cylinder, Left, Duo Servo, Hydr Oil		1	
6-B	4719200	Wheel Cylinder, Left, Hi Press, Duo, Hydr			1
7	2345700	Screw & Lockwasher	2	2	2
8&9	2332400	Adjusting Screw & Pivot Nut	1	1	1
10	0978200	Socket - Adjusting Screw	1	1	1
11	0978300	Push Rod - Wheel Cylinder	1	2	2
12	0978400	Spring - Adjusting Screw, yellow	1	1	1
13	0978500	Spring - Front Shoe Lever, red	1		
14	0978600	Spring - Rear Shoe, orange	1	2	2
15	0978800	Pin - Shoe Hold Down, stainless steel	2	2	2
16	0978900	Cup - Shoe Hold Down, stainless steel	4	4	4
17	0979000	Spring - Front Hold Down, yellow	1		
18	0979100	Spring - Rear Hold Down, black	1	2	2
19	2475700	Plug -Adjusting Hole	1	1	1
	0973901	Free Backing Shoe Assembly Complete	1		
20*	0777801184	Retaining Ring, plated	1		
21 *	1740600	Lock Nut, 5/16 X 18NC	1		
28*	0974300	Travel Link	1		
29*	0794900	Hex Cap Screw, 5/16 - 18NC Grade 5	1		
30*	1256000183	Pin - Front Shoe, Clear Zinc Plated	1		
2*	0973900	Front Shoe	1		
3*	0974500	Shoe Lever	1		
31	0681400	Spring, Free Backing	1		
**1	2473701042	Backplate, Less Anchor Pin	1	1	1
**not shown	0977100	Anchor Pin, Backplate	1	1	1
**not shown	0977200	Flat Washer/Spacer	1	1	1
**not shown	0977300	Lock Washer, 3/4	1	1	1
**not shown	0977400	Hex Nut, 3/4 - 16UNF	1	1	1
not shown	1584500	Wheel Cylinder Repair Kit - Brake Fluid	1		
not shown	0797200	Hex Nut, 1/2 - 20UNF	4	4	4
not shown	0795500	Hex Cap Screw, 1/2 - 20UNF X 1 Grade 5	4	4	4
not shown	0793700	Lock Washer, 1/2	4	4	4

* Component of the 0973901 Free Backing Shoe Assembly

** Component of the 2473700042 Backplate Assembly

NOTE: "Complete" in the description column consists of seals, nuts, cones and dust caps as required.

8½" x 2¼" Hub and Drum with cups and bolts

Part No.	Bearings	No. of Bolts	Bolt Circle	Seal Size	Description	Weight (Pounds)	Pallet Quantity	Standard Non-Standard
1540500CB042		5	4.5		Cup & Bolt	20	64	STD
1544500042	1 3/8"x1 1/16"	5	4.5	1.718	Complete	22	64	STD
1662600CB042		5	5.5		Cup & Bolt	20	64	*NON-STD
1662200042	1 3/8"x1 1/16"	5	4.5	1.718	Complete	22	64	*NON-STD

*Non-Standard clusters require minimum 8-week lead time and minimum quantity may be required

10" x 2¼" Hub and Drum with cups and bolts

Part No.	Bearings	No. of Bolts	Bolt Circle	Seal Size	Description	Weight (Pounds)	Pallet Quantity	Standard Non-Standard
*1543900CB042		5	4.5		Cup & Bolt	22	48	STD
*1544600042	1 3/8"x1 1/16"	5	4.5	1.718	Complete	24	48	STD
1554400CB042		5	4.5		Cup & Bolt	22	48	STD
1554500042	1 3/8"x1 1/16"	5	4.5	1.718	Complete	23	48	STD

*Use with electric or hydraulic brakes

12" x 2" Hub and Drum with cups and bolts

Part No.	Bearings	No. of Bolts	Bolt Circle	Seal Size	Description	Weight (Pounds)	Pallet Quantity	Standard Non-Standard
1870000CB042		6	5.5		Cup & Bolt	38	36	STD
1870000042	1 1/4"x1 1/4"	6	5.5	2 1/4	w/18827 Dust Cup	40	36	STD
4221400CB042		6	5.5		Cup & Bolt	38	36	STD
4221400042		6	5.5	2 1/4	w/4159 Dust Cup	40	36	STD

12" x 2" Hub and Drum with cups and bolts

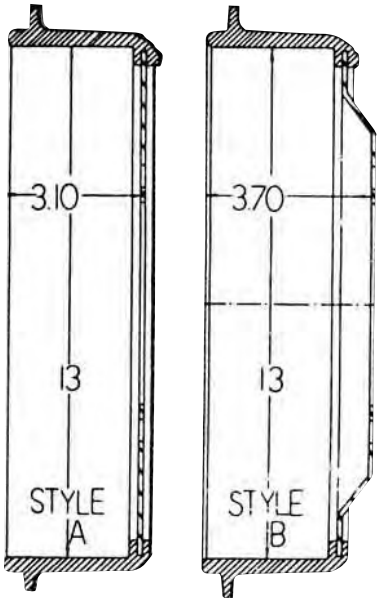
Part No.	Bearings	No. of Bolts	Bolt Circle	Seal Size	Description	Weight (Pounds)	Pallet Quantity	Standard Non-Standard
1870100CB042		8			Cup & Bolt	39	57	STD
1870100042	1 1/4"x1 1/4"	8	6.5	2 1/4	Complete	42	57	STD

12” Brake Drum Assembly (Cast)

Part No.	No. of Bolts	Bolt Circle	Center Hole Size	Description	Weight (Pounds)	Pallet Quantity	Standard Non-Standard
4404700	6	5.5	4 3/8”	12 x 2	17	—	STD

Demountable 13” Brake Drums

Composite Cast Iron and Steel Stamping Construction



STYLE A

Style A Part No.	No. of Bolts	Bolt Circle	Bolt Hole Diameter	Center Hole Size	Weight (Pounds)	Standard Non-Standard
0989400	8	8”	5/8”	5 3/4”	21	STD
1696400	6	8 1/4”	17/32”	6”	21	STD

STYLE B

Style B Part No.	No. of Bolts	Bolt Circle	Bolt Hole Diameter	Center Hole Size	Weight (Pounds)	Standard Non-Standard
1011100	6	5 1/2”	17/32”	4 3/8”	21	STD
*1885900	8	5 1/2”	17/32”	4 3/8”	21	STD
*4326800	8	5 1/2”	17/32”	4 1/2”	21	STD

* with reinforcement plate

INTRODUCTION TO SURGE BRAKING

Surge braking is accomplished by replacing a trailer's standard tongue coupler with an actuator and adding hydraulic brake assemblies. The "surge" or "push" of the trailer toward the tow vehicle during deceleration automatically synchronizes these trailer brakes with the tow vehicle brakes. As the trailer pushes against the vehicle, the actuator telescopes together and applies force to its master cylinder, supplying hydraulic pressure to the trailer's brakes.

Surge actuators of this type provide a service life of approximately five years with proper installation, usage, and maintenance. However, a well-cared-for actuator can often exceed this estimate. To get the most benefit from your TITAN surge actuator, follow the instructions given in this manual and use common sense in caring for the TITAN brake actuator and your entire trailer brake system.

TITAN ACTUATOR RECOMMENDED APPLICATIONS

MODEL 60

-6,000 lb. Max. Gross Load, 600 lb. Max. Tongue Load

For recreational, boat, baggage, and other light occasional-use trailers, which are towed by passenger cars and pickups.

AERO-7500 *(also available in swing-away version)*

-7,500 lb. Max. Gross Load, 750 lb. Max. Tongue Load. Equipped with lock-out lever for backing up.

For recreational, boat, baggage, and other light occasional-use trailers, which are towed by passenger cars and pickups.

MODEL 6

-Multi-fit & 2" Lever Lock: 6,000 lb. Max. Gross Load, 600 lb. Max. Tongue Load

-2 5/16" Ball & 3" Lunette Eye: 8,000 lb. Max. Gross Load,

600 lb. Max. Tongue Load

For recreational trailers subject to more frequent use, light utility trailers, and light occasional-use industrial trailers, which are towed by passenger cars and pickups.

ULTRA-70 *(also available in swing-away version)*

-7,000 lb. Max. Gross Load, 700 lb. Max. Tongue Load. Equipped with an integral back up solenoid valve.

- 2" Ball

For recreational, marine, and agricultural, occasional use trailers towed by cars or pickups.

MODEL 10

-12,500 lb. Max. Gross Load, 1,250 lb. Max. Tongue Load

For heavier recreational and light industrial trailers, which are towed by passenger cars and pickups.

MODEL 20

-Fixed Coupler & Lunette Eye: 20,000 lb. Max. Gross Load, 2,000 lb. Max. Tongue Load

-Adjustable Clevis Hitch & Adjustable 3" Lunette Eye: 20,000 lb. Max. Gross Load, 2,000 lb. Max. Tongue Load

-Adjustable 2 5/16" Ball: 14,000 lb. Max. Gross Load, 1,400 lb.

Max. Tongue Load

For heavy or frequent-use applications, and for trailers pulled by trucks larger than standard pickups. Typical uses include industrial equipment trailers, agricultural spreaders, tank trailers, and wagons, utility reel and pole trailers, and military ground support equipment.

BRAKE RITE *(Electric-Hydraulic Actuator)*

-For light to heavy duty utility, recreational, agricultural, and travel trailers towed by vehicles with the capacity to tow the gross vehicle weight rating for the trailer.

BrakeRite Electric/Hydraulic Actuator

Original BrakeRite EHB

A proven track record of performance and reliability! Designed to be hard wired into your trailers electrical system. All components self-contained under the BrakeRite's cover.

1500 PSI - BRAKERITE EHB

Part No.	Brake Type	Standard or Non-standard	Weight (Pounds)	Pallet Quantity
4813100	Disc	STD	10.5	24

1000 PSI - BRAKERITE EHB

Part No.	Brake Type	Standard or Non-standard	Weight (Pounds)	Pallet Quantity
4822500	Drum	STD	10.5	24

BrakeRite II

Designed for severe duty applications using external control modules for specific applications. Control modules have plug-in weather sealed connectors.

The **BrakeRite II** *is used with either the:*

BRAKERITE SD Severe Duty *or* BRAKERITE RF Radio Frequency / Rental Friendly

kits to match your specific trailoring application.

BRAKERITE II

Part No.	Brake Type	Standard or Non-standard	Weight (Pounds)	Pallet Quantity
4834100	Disc/Drum	STD	10.5	24

For drum brakes use reducer # 4844100

Titan has been a pioneer in the Electro Hydraulic Brake (EHB) actuator industry beginning in the early 90's.

In the new millennium Titan developed and tested the BrakeRite EHB that was introduced in early 2002.

The features of the **BrakeRite EHB** *and the* **BrakeRite II** *include:*

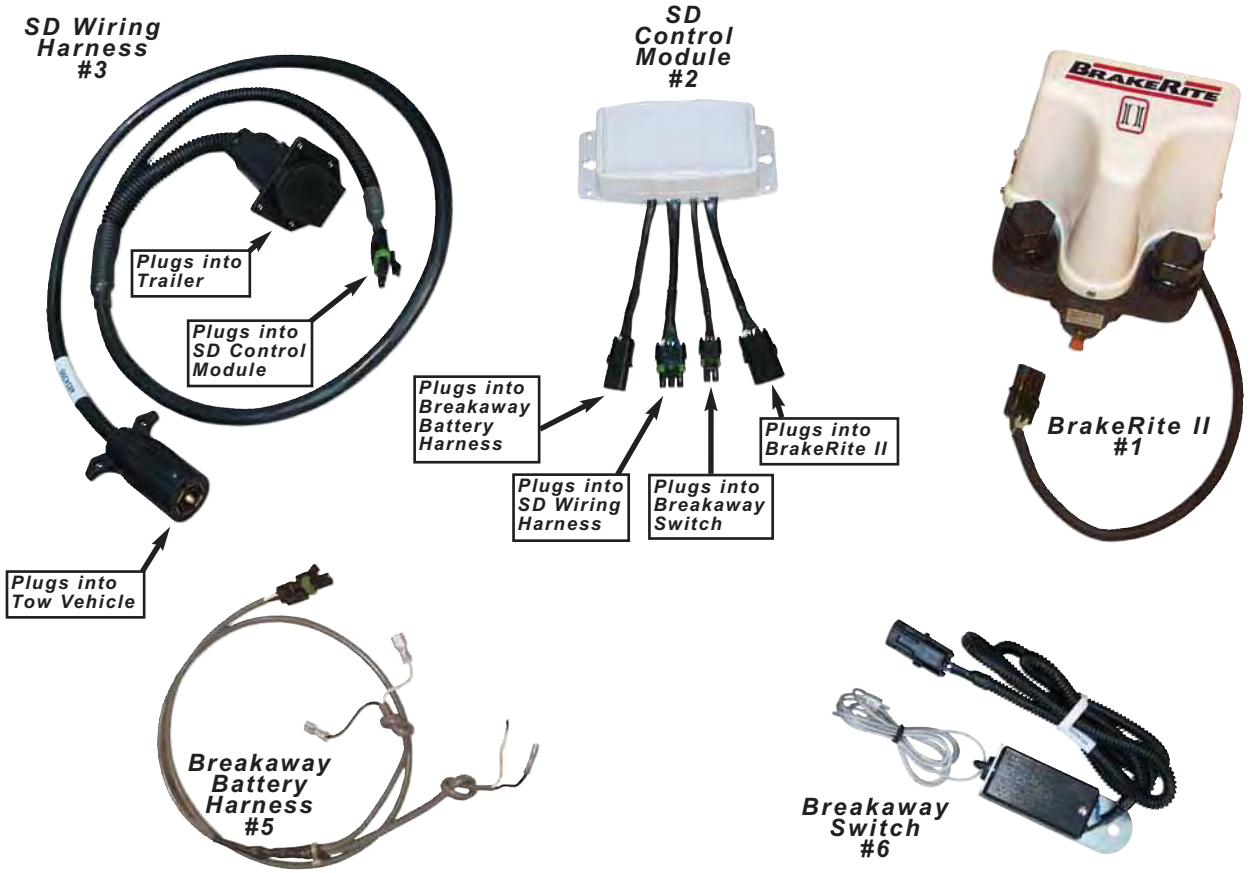
- *First in the field with an electronic proportional pressure valve*
- *The most rapid response from brake actuation to total dynamic braking in the industry*
- *Hybrid electronic control board compatible with most in-cab brake controllers*
- *On-going in plant performance testing and each production unit is bench tested*
- *Research and development is the "norm" at Titan*
- *Pump/motor based*
- *Isolated fluid reservoir with diaphram type valve filler cap*

BrakeRite SD
Severe Duty

The **BrakeRite II - Severe Duty** *utilizes the proven technology and performance of the BrakeRite EHB however, the installation process has been simplified in the new model.*

The features of the **BrakeRite II - Severe Duty** *include:*

- *Utilizes the standard proven EHB electronic control board, potted and enclosed in a remote mounted control module*
- *Provides complete Plug-In wiring harnesses to simplify field installation*
- *In the event of field service, component replacement is simplified*
- *Potted hybrid circuitry provides dependable service under adverse conditions*


SD Wiring Harness #3
Plugs into Trailer
Plugs into SD Control Module
Plugs into Tow Vehicle
SD Control Module #2
Plugs into Breakaway Battery Harness
Plugs into SD Wiring Harness
Plugs into Breakaway Switch
Plugs into BrakeRite II
BrakeRite II #1
Breakaway Battery Harness #5
Breakaway Switch #6

BRAKERITE II SD KIT (includes everything listed above)

Part No.	Brake Type	Standard or Non-standard	Weight (Pounds)	Pallet Quantity
4835700	Disc/Drum	STD	13	TBD

For drum brakes use reducer # 4844100

BRAKERITE II SD PARTS LIST

Ref #	Part Number	Part Description
1	4834100	BrakeRite II
2	4834200	SD Control Module
3	4834300	SD Wiring Harness
4	4834400	BrakeRite II Breakaway Battery Harness
5	4834500	BrakeRite II Breakaway Battery Switch

Custom made harness' are available upon request. Contact your sales representative for details.

BrakeRite RF

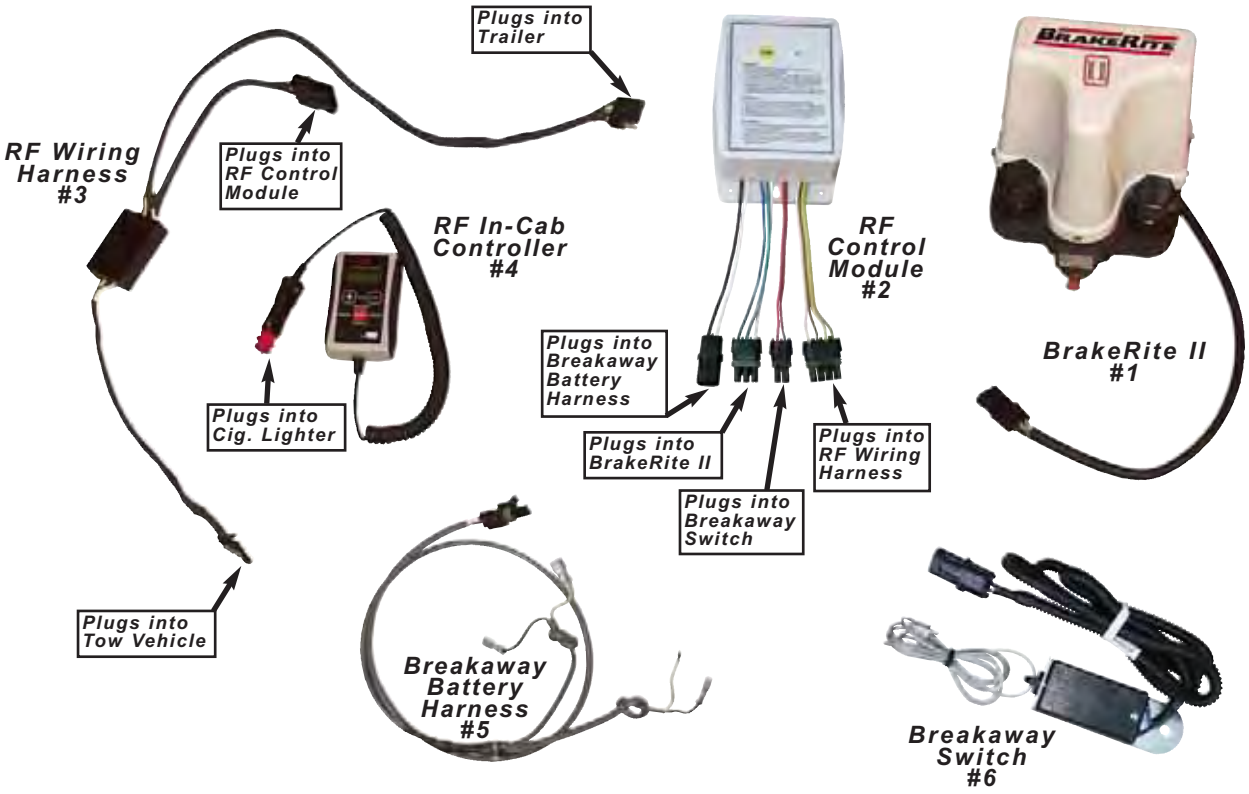
Radio Frequency / Rental Friendly

The **BrakeRite II - RF** *applies the outstanding BrakeRite EHB performance with radio frequency control to provide quality braking for trailers to be towed by vehicles without the standard, hard wired in-cab brake controllers*

This system incorporates the latest in deceleration sensing by utilizing an accelerometer chip in the hybrid circuitry to apply the trailer brakes in proportion to the tow vehicle braking. The in-cab controller manual override is transmitted by RF (radio frequency) to the control module and is powered by the in-cab power outlet (cigarette lighter).

The features of the **BrakeRite II - RF** *include:*

- *Utilizes basic EHB electro-mechanical feature proven in field use*
- *Has potted hybrid circuitry which functions even in severe environmental conditions*
- *Plug-in technology provides for ease of installation and/or field service*


Plugs into Trailer
RF Wiring Harness #3
Plugs into RF Control Module
RF In-Cab Controller #4
RF Control Module #2
BrakeRite II #1
Plugs into Breakaway Battery Harness
Plugs into Cig. Lighter
Plugs into BrakeRite II
Plugs into RF Wiring Harness
Plugs into Breakaway Switch
Plugs into Tow Vehicle
Breakaway Battery Harness #5
Breakaway Switch #6

BRAKERITE II RF KIT (includes everything listed above)

Part No.	Brake Type	Standard or Non-standard	Weight (Pounds)	Pallet Quantity
4835600	Disc/Drum	STD	10.5	24

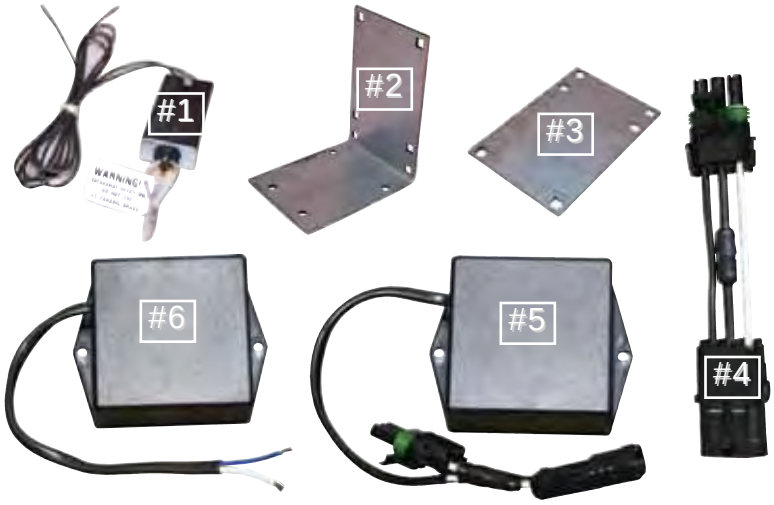
For drum brakes use reducer # 4844100

Custom made harness' are available upon request. Contact your sales representative for details.

BRAKERITE II RF PARTS LIST

Ref #	Part Number	Part Description
1	4834100	BrakeRite II
2	4835100	RF Control Module
3	4835500	RF Wiring Harness
4	4835200	RF In-Cab Controller
5	4834400	BrakeRite II Breakaway Battery Harness
6	4834500	BrakeRite II Breakaway Battery Switch

BRAKE RITE ACCESSORIES



BRAKERITE EHB ACCESSORIES

Ref #	Part Number	Part Description
1	4822100	Gel Cell Breakaway Kit with 2 Batteries
2	4821800	Angle Mounting Bracket - unpainted
3	4821900	Mounting Plate - unpainted
4	4844100	Drum Brake Reducer (SD & RF only)
5	4845900	Ford/Chevy Adapter (SD) *
6	4846000	Ford/Chevy Adapter (EHB) *

* Note: Needed for Ford & Chevy vehicles with integral tow package on 2006.5 and up models.

!!! SAFETY WARNING !!! Before using trailer always check:

1) Brake fluid level must be maintained between three eighths & three quarters of an inch of filler cap opening.

2) Prior to moving coupled units check unit to be certain system is functioning properly (consult owner's manual).

3) Prior to moving coupled units check BREAKAWAY PROTECTION. NEVER ATTEMPT TOMOVE/USE THE TRAILER if the Breakaway Battery is not fully charged.

4) DO NOT RELY ON Towed Vehicle Brakes for entire unit braking. The Towed Vehicle Brake is only to supplement the Braking System on the Towing Vehicle, NOT TO STOP THE ENTIRE UNIT.

5) ALWAYS operate unit within prudent parameters and obey all laws.

BrakeRite Limited Warranty:

Eligibility: You are eligible for the benefits of this limited warranty if you are the original end-use purchaser of this BrakeRite EHB and if the unit has been used only on the vehicle in which it was first installed.

What Is Covered: Titan Tire warrants this product to be free from defects in material and workmanship for 18 months after the date of manufacture or one year from the date of retail sale, whichever occurs first, when properly installed , used and maintained.

What Is Not Covered: The warranty does not apply to damage or loss caused by any of the following circumstances or conditions:

1. Freight damage
2. Misapplication, misuse, modification, or failure to follow the directions or observe cautions and warnings on installation, wiring, operation, application, inspection or maintenance specified in any Titan specification sheet, instruction and installation manual ;
3. Using parts, accessories or components not specified in Titan's specification sheet, instruction and installation manual or approved by Titan Distribution in writing.

Conditions and Limitations: Titan Tire's liability and purchaser's remedy are expressly limited, at Titan's sole option, to the repair or replacement of the defective product. For the warranty to apply, Titan Distribution must receive notice of the alleged defect within 30 days of i) the alleged defect or ii) the expiration of the warranty period, whichever is earlier. Any claim not made within this period shall conclusively be deemed void. Titan Distribution reserves the right to request that the product be returned to Titan Distribution, intact and postage prepaid, prior to processing a warranty claim.

Titan Distribution shall not be liable for loss of use of the unit, or any other incidental or consequential costs, expenses or damages incurred by the purchaser.

Some states do not allow the exclusion or limitation of implied warranties, incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

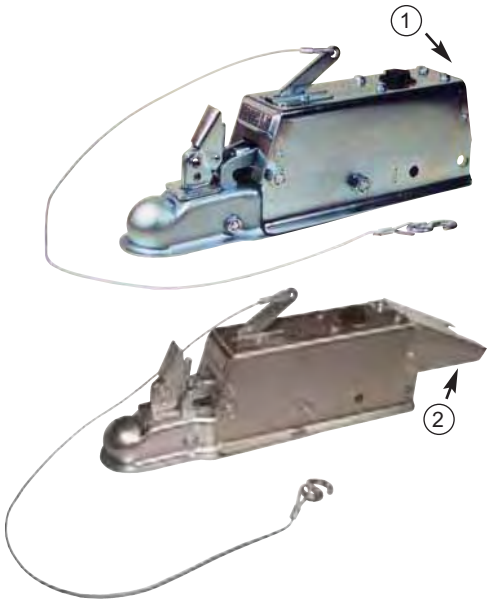
To Receive Benefits Under This Warranty: Contact Titan Tire at the address or phone number below to obtain an authorization for return.

Titan Tire Corporation
Attention Warranty Dept.
2345 E. Market Street
Des Moines, IA 50317
800-832-8781

The product must be returned, shipping costs prepaid, insured to the factory for evaluation.

The following information should be available when contacting the factory and must accompany the return, legibly prepared: i) name, address and telephone number of purchaser, ii) proof of purchase including date, iii) model and serial number of the unit, iv) name and address of the dealer where the unit was purchased, v) description of the alleged defect.

These terms and conditions represent the entire Titan Distribution BrakeRite EHB warranty, and no terms or conditions in any way adding to, modifying or otherwise altering the provisions stated herein shall bind Titan Distribution unless in writing signed by Titan Distribution.



Model 60 Leverlock Actuator

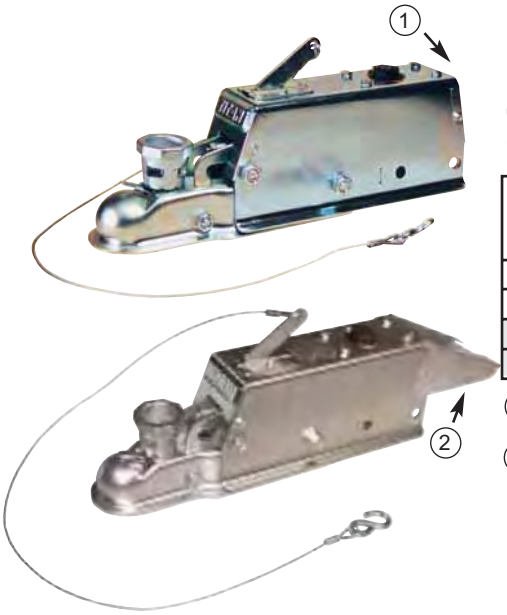
6,000 pound capacity, Max. G.V.W.R., 600 pound tongue load
G.V.W.R. limited to ball rating.

Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
4338600	4332900	Drum	STD	20	36	2336100042	4395100	4358400	3" Tongue
4819900	4715400	Disc	STD	20	36	4714200042	4820000	4358400	3" Tongue
4819910	4715410	Disc	STD	20	30	4714200042	4820000	4358400	3" Tongue
4819920	4715420	Disc	STD	20	30	4714200042	4820000	4358400	3" Tongue

(1) Un-shaded part numbers do not have solenoids or covers.

(2) Shaded part #'s ending in "10" have solenoid covers only.
Shaded part #'s ending in "20" have solenoids & covers.

NOTE: For 3" wide trailer tongue.
NOTE: Fits 1⅞", 50mm and 2" Ball. (some adjustment required)
NOTE: PRIMED PARTS ARE NON-STANDARD



Model 60 Multi-fit Actuator

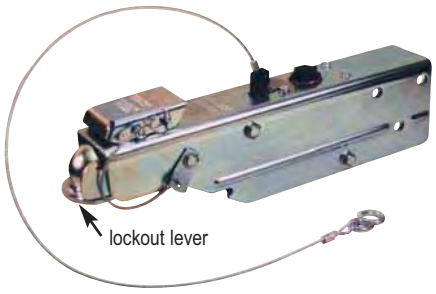
6,000 pound capacity, Max. G.V.W.R., 600 pound tongue load
G.V.W.R. limited to ball rating.

Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
4339900	4332700	Drum	STD	20	36	2336100042	4395100	4045400	3" Tongue
4815200	4745700	Disc	STD	20	36	4714200042	4820000	4045400	3" Tongue
4815210	4745710	Disc	STD	20	30	4714200042	4820000	4045400	3" Tongue
4815520	4745720	Disc	STD	20	30	4714200042	4820000	4045400	3" Tongue

(1) Un-shaded part numbers do not have solenoids or covers.

(2) Shaded part #'s ending in "10" have solenoid covers only.
Shaded part #'s ending in "20" have solenoids & covers.

NOTE: For 3" wide trailer tongue.
NOTE: Fits 1⅞", 50mm and 2" Ball.
NOTE: PRIMED PARTS ARE NON-STANDARD



Aero 7500 Actuator with Lockout Lever

7,500 pound capacity, Max. G.V.W.R., 750 pound tongue load

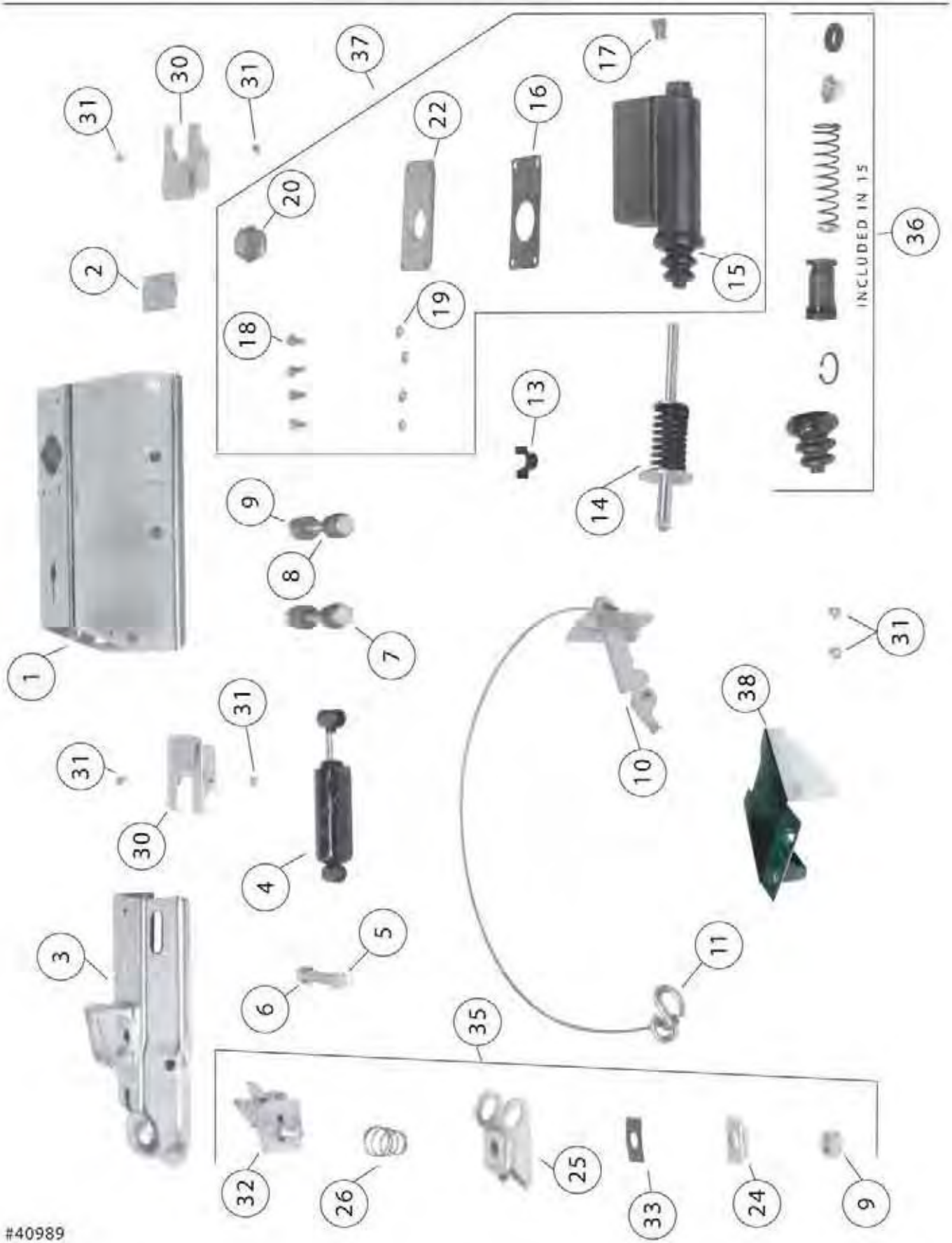
Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
	4500600	Drum	STD	24	36	2336100042	4395100		3" Tongue
	4606500	Disc	STD	20	36	4714200042	4820000		3" Tongue
	4606520	Disc	STD	20	36	4714200042	4820000		3" Tongue

(1) Un-shaded part numbers do not have solenoids or covers.

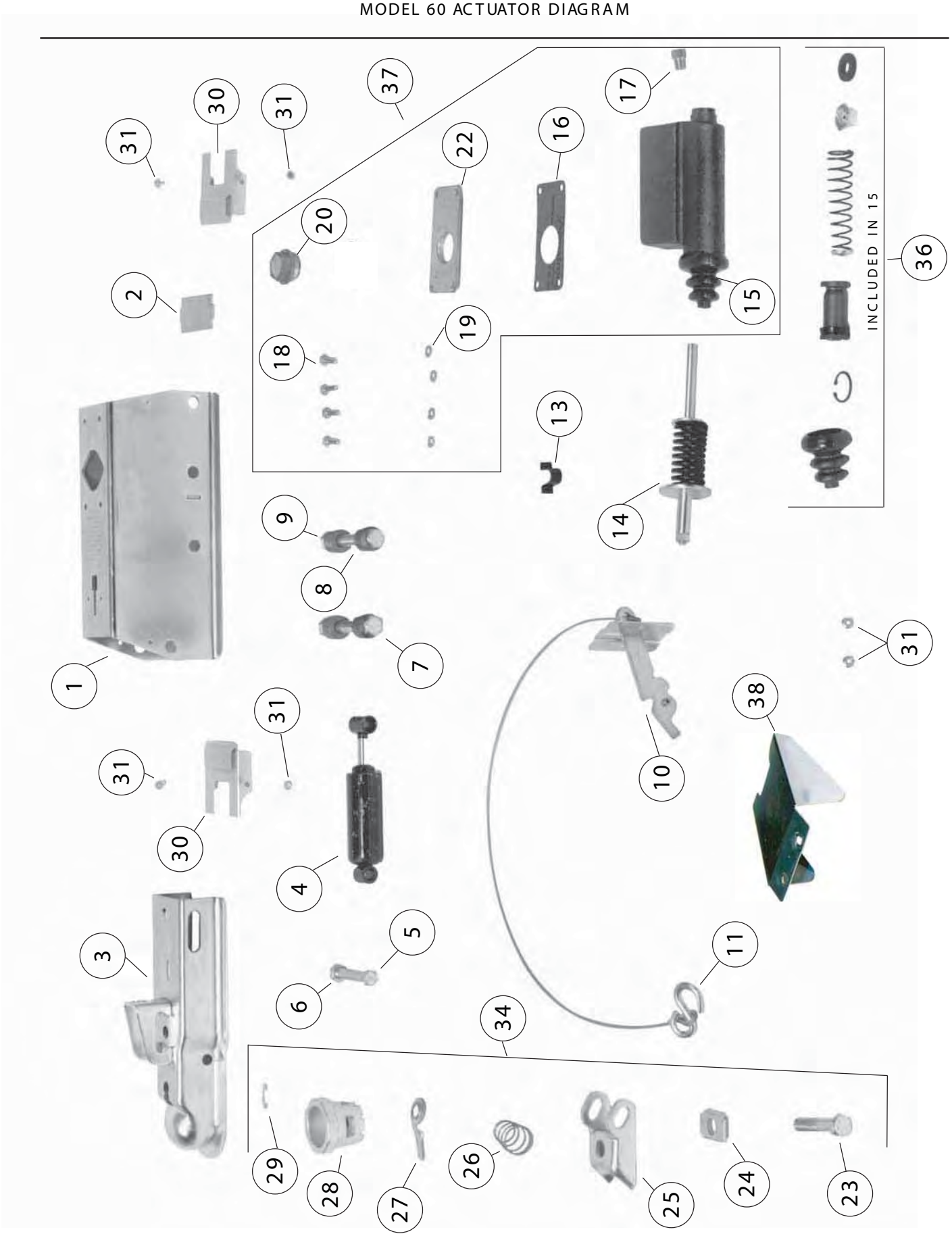
(2) Shaded part #'s ending in "10" have solenoid covers only.
Shaded part #'s ending in "20" have solenoids & covers.

NOTE: Use only with 2" diameter tow ball.
G.V.W.R. limited to that of the ball & hitch being used.

LEVER-LOCK
MODEL 60 ACTUATOR DIAGRAM



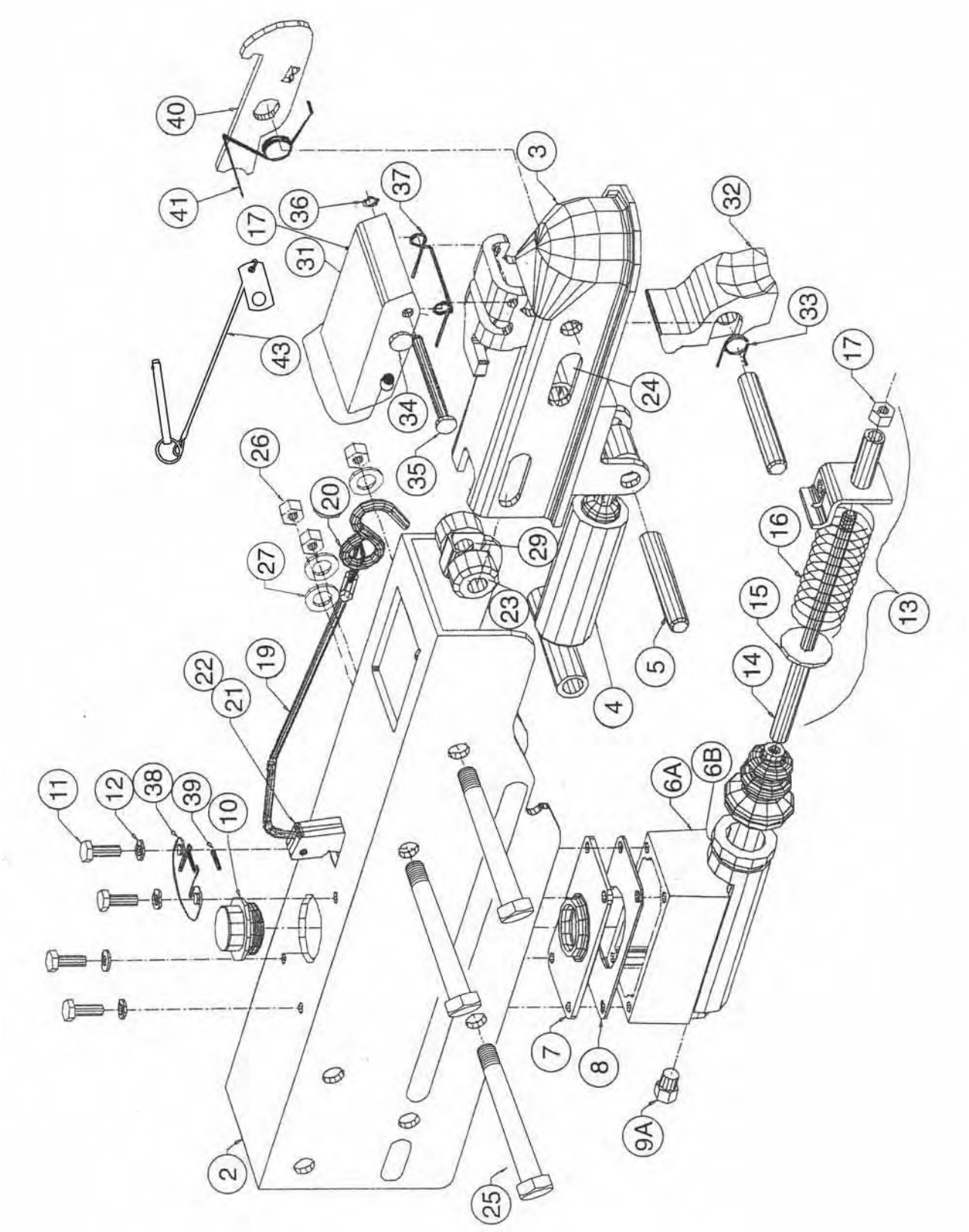
MULTI-FIT
MODEL 60 ACTUATOR DIAGRAM



MODEL 60 ACTUATOR PARTS LIST
(REFER TO DIAGRAMS ON PAGE 29 & 30)

Ref No.		Part No.	Description	Multi-Fit Marine 43397xx, 47457xx	Multi-Fit Painted 43399xx, 48152xx	Lever-Lock Marine 43329xx, 47154xx	Lever-Lock Painted 43386xx, 48199xx
1		4324600	Outer Case	1		1	
1		4338700	Outer Case		1		1
2		2337700	Strut	1	1	1	1
3		2337800	Coupler Case	1			
3		4097000	Coupler Case		1		
3		4332500	Coupler Case			1	
3		4338800	Coupler Case				1
4		2336200	Shock Absorber	1	1	1	1
5		2339000	Bolt, Hex 7/16 NF x 2-5/8	1	1	1	1
6		2339100	Locknut, Hex 7/16 NF Thin	1	1	1	1
7		2327800	Roller	4	4	4	4
8		2341300	Bolt, Hex 1/2 NF x 3-3/4	2	2	2	2
9		1861200	Locknut, Hex 1/2 NF	2	2	3	3
10		4623800	Breakaway Assy. w/pin, cover, s-hook	1	1	1	1
11		1055500	S-hook - included with 46238	1	1	1	1
13		4005200	Breakaway Spring	1	1	1	1
14		2346300	Push Rod Assembly	1	1	1	1
15	*	2336100042	Master Cylinder - Drum Brake	1	1	1	1
15	*	4714200042	Master Cylinder - Disc Brake	1	1	1	1
16	*	2341400	Gasket	1	1	1	1
17	*	1209800	Connector, 1/64" orifice - Drum Brake	1	1	1	1
17	*	4750300	Connector - Disc Brake	1	1	1	1
18	*	1050800	Bolt, Hex 1/4 NC x 3/4	4	4	4	4
19	*	0799400	Lock washer 1/4	4	4	4	4
20	*	4480701	Filler Cap, diaphragm type	1	1	1	1
22	*	2356600	Cover, Master Cylinder	1	1	1	1
23		2338100	Latch Bolt	1	1		
24		1809000	Lock Plate	1	1	1	1
25		4335800	Ball Latch	1	1	1	1
26		4336800	Spring	1	1	1	1
27		2338300	Hand Wheel Lock	1	1		
28		2420000	Hand Wheel	1	1		
29		2496400	Lock Ring	1	1		
30		2452500183	Cover, Front, Plated	2		2	
30		2452500317	Cover, Front, Painted		2		2
31		1094100	Screw, Cover	6	6	6	6
32		4358500	Handle Assembly			1	1
33		4334500	Spring Plate			1	1
34		4045400	Multi-Fit Coupler Repair Kit	1	1		
35		4358400	Lever-Lock Coupler Repair Kit			1	1
36		1502600	Master Cylinder Repair Kit Wagner	1	1	1	1
37		4395100	Master Cylinder Kit (includes * parts) Drum Brakes	1	1	1	1
37		4820000	Master Cylinder Kit (includes * parts) Disc Brakes	1	1	1	1
38		4835800183	Solenoid Valve Cover, Plated	1		1	
38		4835800	Solenoid Valve Cover, Painted		1		1
		4748800	Solenoid Backup Valve				

AERO 7500 ACTUATOR ASSEMBLY DIAGRAM



AERO 7500 ACTUATOR PARTS LIST
(REFER TO DIAGRAMS ON PAGE 32)

Ref#	Part#	Description	Qty
2	4500700	Outer Case, plated	1
3	4518100183	Coupler Case Assembly, plated	1
4	4502000	Damper	1
5	4511400	1/2" Damper Pin/Ball Latch Pin	2
6A	2336100042	Master Cylinder, drum brake	1
6B	4714200042	Master Cylinder, disc brake	1
7	4518200	Cover, Master Cylinder	1
8	4524400	Gasket, Master Cylinder	1
9A	1209800	Orifice Connector, .015", drum brake	1
9B	4750300	Orifice Connector, .125", disc brake	1
10	4480701	Filler cap with diaphragm	1
11	4624200	Bolt, 1/4" x .875" 20 NC	4
12	0794000	Lockwasher, 1/4" standard	4
13	4502700	Pushrod & Breakaway Cable Assembly	1
* 14	2338400	Push Rod	1
* 15	2338500	Washer, push rod	1
* 16	2338600	Spring	1
* 17	1740600	Lock Nut, 5/16" - 18NC	2
* 18	4518300	Spring Guide	1
* 19	4501300	Breakaway Cable	1
* 20	1055500	S - Hook	1
21	4597100	Breakaway Lever	1
22	4599500	Roll Pin, 3/16" x 1/2"	1
23	4518400	Rear Roller, Sintered Iron	2
24	4518500	Front Roller	1
25	2341300	Bolt, 1/2" x 3 3/4" NF	3
26	4835400	1/2" - 20 NF Jam Nut	3
27	4511200	Washer, 1/2"	2
29	4524900	Roller Separator	1
31	4501100	Handle	1
32	4500900	Ball Latch, cast	1
33	4520000	Spring, ball latch	1
34	4811500	Bolt, 5/16" x 3" Grade 8 NC	1
35	4518600	Groove Pin, 1/4"	1
36	4518700	Retaining Ring, 1/4"	1
37	4521500	Spring, handle	1
38	4501400	Breakaway Catch Spring	1
39	4597200	Breakaway Catch Pin	1
40	4600100183	Lockout Lever	1
41	4600000	Lockout Torsion Spring	1
42	4745500	Label, disc brake actuator	1
43	4706400	Quick Release Pin & Lanyard	1
44	1502600	Master Cylinder Repair Kit	1
45	4748800	Solenoid Back Up Valve	1

*** included in item #13**

SWINGAWAY ACTUATORS

Aero 7500 Swing Away

Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs.)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	Description
	4839000	Drum	STD	38	20	2336100042	4395100	CPLR Bolt-On
	4839100	Disc	STD	38	20	4714200042	4820000	CPLR Bolt-On
	4839300	Drum	STD	38	20	2336100042	4395100	CPLR Weld-On
	4839400	Disc	STD	38	20	4714200042	4820000	CPLR Weld-On

Ultra-70 Swing Away

Part No. Painted	Part No. Plated	Brake Type	Standard or Non-	Weight (lbs.)	Pallet Cyl.	Master Cyl. Assy.	Description
	4845700	Disc	STD	37	20	4819200	CPLR Weld-On
4846300		Disc	STD	37	20	4819200	CPLR Weld-On
	4845800	Disc	STD	37	20	4819200	CPLR Bolt-On
4846400		Disc	STD	37	20	4819200	CPLR Bolt-On

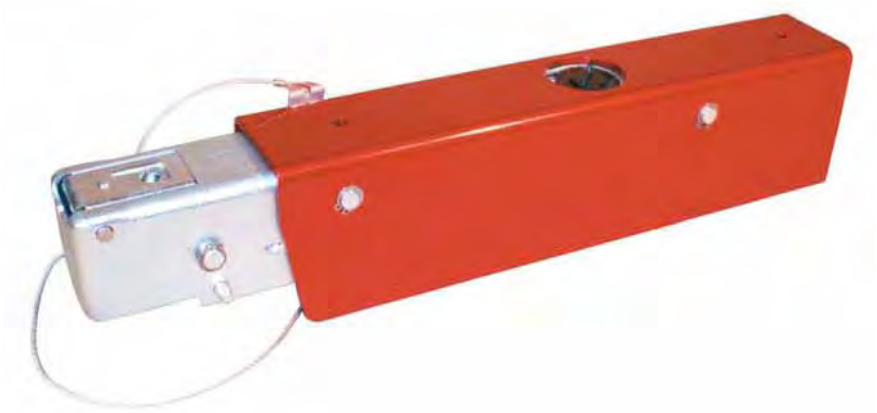
ULTRA-70

ULTRA-70 SLIM LINE ACTUATOR

All Ultra-70's have a rated capacity of 7,000 G.V.W.R. 700 lbs. MAX. tongue load.

The Ultra-70 is a streamlined actuator designed with an outer case to be attached and painted with your trailer. The sleek inner cartridge is pleasing to the eye, but don't let looks deceive you, the Ultra-70 with it's cast ball latch and high strength steel case is the most rugged actuator in its weight class.

Ultra-70



- *7,000 lbs. capacity, 700 lb. tongue weight*
- *Sleek, streamlined features to integrate with trailer design*
- *Easily handles twin 3,500 lb. axles*
- *Can be used with disc or drum brakes (must specify type when ordering)*
- *Outer case designed to be attached and painted with trailer*
- *Bolt-on and weld-on versions available*
- *Available in plated, primed or unpainted finishes*
- *Equipped with an integral backup solenoid valve*

Ultra-70 Assy. - Weld-on (un-painted)

Part No.	Brake Type	Standard or Non-standard	Weight (lbs)	Master Cyl.	Pallet Quantity
4816000	Disc	STD	22.5	4819200	30
4831000	Drum	STD	22.5	4830900	30

Ultra-70 Assy. - Bolt-on (plated)

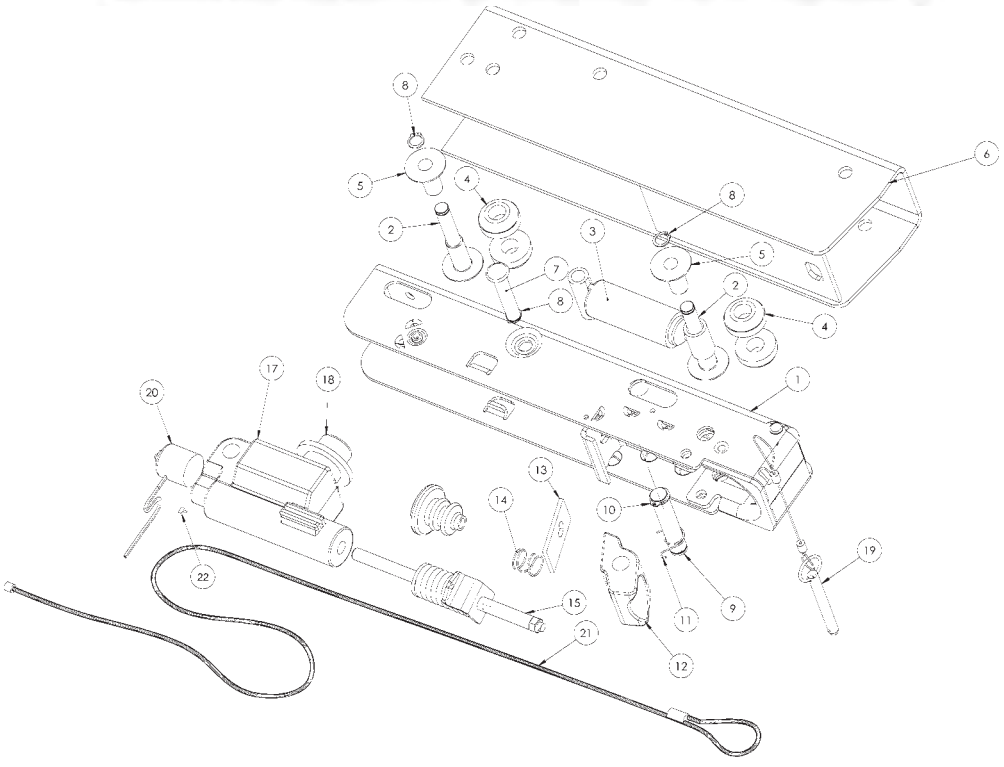
Part No.	Brake Type	Standard or Non-standard	Weight (lbs)	Master Cyl.	Pallet Quantity
4823200	Disc	STD	22.5	4819200	30
4831100	Drum	STD	22.5	4830900	30

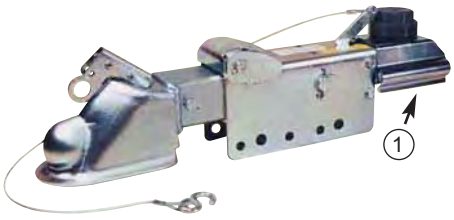
Ultra-70 Assy. Bolt-on (primed)

Part No.	Brake Type	Standard or Non-standard	Weight (lbs)	Master Cyl.	Pallet Quantity
4823300	Disc	STD	22.5	4819200	30
4831200	Drum	STD	22.5	4830900	30

ULTRA-70 ACTUATOR PARTS LIST

Item No.	Qty	Part Number	Description
1A	1	4832100	complete inner assembly, disc brake
1B	1	4832200	complete inner assembly, drum brake
1	1	4816200	inner case
2	2	4511300	Pin
3	1	4819100	Damper
4	4	4818500	Roller
5	4	4818700	Sleeve, roller
6	1	4819600	Outer case, weld on, uncoated
	1	4823400183	Outer case, bolt on, plated
	1	4823400317	Outer case, bolt on, painted
7	1	4818400	Damper pin
8	4	4511100	Retaining ring, 1/2" dia.
9	1	4818300	Ball latch pivot pin
10	2	4850700	Retaining ring, 5/8" dia.
11	1	4820200	Ball latch spring
12	1	4818200	Ball latch
13	1	4818600	Break away lock lever
14	1	4818800	Break away lock spring
15	1	4846900	Push rod assembly
*	1	4818900	push rod
21*	1	4822300	Breakaway cable
*	1	4822200	cable bracket
*	1	2338600	spring
*	1	2338500	washer
*	1	1740600	locknut
*	1	4822400	aluminum swage block for cable
*	1	1055500	S - hook
17	1	4819200	Master cylinder, disc brake
	1	4830900	Master cylinder, drum brake
18	1	4830600	Filler cap, master cylinder, diaphragm
	1	4813700	Filler cap, master cylinder, vented
19	1	4819400	Safety lock pin with lanyard
20	1	4819300	Solenoid back up valve
22	1	4750300	Orifice connector, disc brake
	1	1209800	Orifice connector, drum brake





Model 6 Actuator with 2 5/16" Ball Coupler

8,000 pound capacity, Max. G.V.W.R., 800 pound tongue load, G.V.W.R. limited to ball rating.

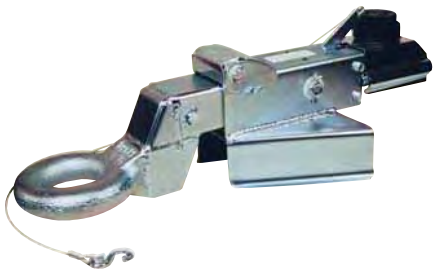
Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
	4079200	Drum	STD	35	22	1027100	1777401	1848700	2 5/16 CPLR Bolt-On
	4747200	Disc	STD	35	22	4747000	1777405	1848700	2 5/16 CPLR Bolt-On
4079200317		Drum	*NON-STD	35	22	1027100	1777401	1848700	2 5/16 CPLR Bolt-On
4747200317		Disc	*NON-STD	35	22	4747000	1777405	1848700	2 5/16 CPLR Bolt-On
	4079220	Drum	STD	35	20	1027100	1777401	1848700	2 5/16 CPLR Bolt-On
	4747210	Disc	STD	35	20	4747000	1777405	1848700	2 5/16 CPLR Bolt-On
	4747220	Disc	STD	35	20	4747000	1777405	1848700	2 5/16 CPLR Bolt-On

(1) Un-shaded part numbers do not have solenoids or covers.

(2) Shaded part #'s ending in "10" have solenoid covers only.
Shaded part #'s ending in "20" have solenoids & covers.

NOTE: For 3" wide trailer tongue

*Non-Standard Actuators require minimum 8-week lead time and minimum order quantity may be required.



Model 6 A-Frame (50º) Actuator w/Lunette Eye

7,500 pound capacity, Max. G.V.W.R., 750 pound tongue load.

Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
	4045500	Drum	*NON-STD	41	14	1027100	1777401		L-Eye Weld-On

NOTE: Disc Brake version is available upon request.

*Non-Standard Actuators require minimum 8-week lead time and minimum order quantity may be required.

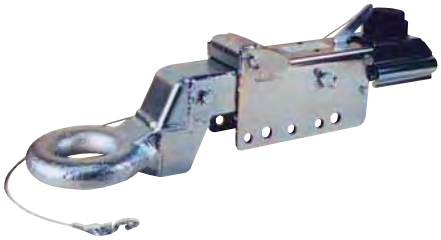
Model 6 A-Frame (50º) Actuator with 2 5/16" Ball Coupler

7,500 pound capacity, Max. G.V.W.R., 750 pound tongue load
G.V.W.R. limited to ball rating

Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
	4067600	Drum	*NON-STD	38	14	1027100	1777401	1848700	2 5/16 CPLR Weld-On

NOTE: Disc Brake version is available upon request.

*Non-Standard Actuators require minimum 8-week lead time and minimum order quantity may be required.



Model 6 Straight Actuator with Lunette Eye

8,000 pound capacity, Max. G.V.W.R., 800 pound tongue load

Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
	4093200	Drum	*NON-STD	38	20	1027100	1777401		L-Eye Bolt-On
	4748000	Disc	*NON-STD	38	20	4747000	1777405		L-Eye Bolt-On
	4748010	Disc	*NON-STD	38	20	4747000	1777405		L-Eye Bolt-On
	4748020	Disc	*NON-STD	38	20	4747000	1777405		L-Eye Bolt-On

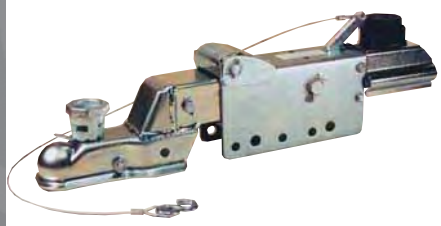
Un-shaded part numbers do not have solenoids or covers.
Shaded part #'s ending in "10" have solenoid covers only. Shaded part #'s ending in "20" have solenoids & covers.

NOTE: For 3" wide trailer tongue

NOTE: Padlock (Master Lock #30) works with a 2 5/16" Ball Coupler

*Non-Standard Actuators require minimum 8-week lead time and minimum order quantity may be required.

Model 6 Actuator with Multi-fit Ball Coupler



6,000 pound capacity, Max. G.V.W.R., 600 pound tongue load
G.V.W.R. limited to ball rating.

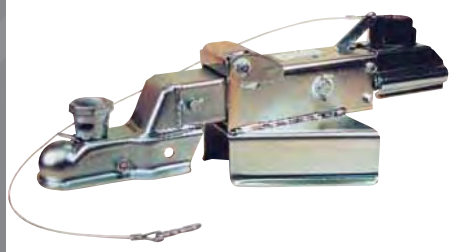
Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
	2480000	Drum	STD	28	22	1027100	1777401	4045400	CPLR Bolt-On
	4747900	Disc	STD	28	22	4747000	1777405	4045400	CPLR Bolt-On
	4747910	Disc	STD	28	20	4747000	1777405	4045400	CPLR Bolt-On
	4747920	Disc	STD	28	20	4747000	1777405	4045400	CPLR Bolt-On

Un-shaded part numbers do not have solenoids or covers.
Shaded part #'s ending in "10" have solenoid covers only. Shaded part #'s ending in "20" have solenoids & covers.

NOTE: For 3" wide trailer tongue

NOTE: Fits 1⅞", 50mm and 2" ball.

Model 6 A-Frame (50º) Actuator with Multi-fit Ball Coupler



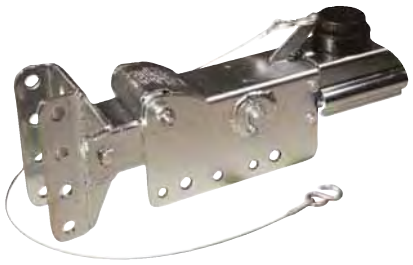
6,000 pound capacity, Max. G.V.W.R., 600 pound tongue load
G.V.W.R. limited to ball rating.

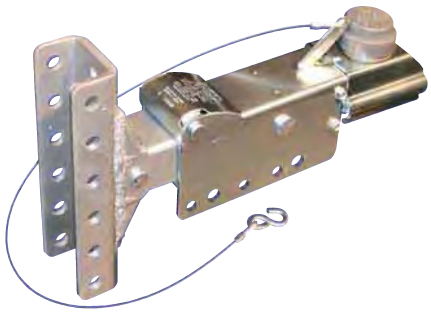
Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
	2492800	Drum	STD	31	14	1027100	1777401	4045400	CPLR Weld-On

NOTE: Fits 1⅞", 50mm and 2" ball.

NOTE: Disc Brake version is available upon request.

Model 6 Actuator with Leveler Channel





8,000 pound capacity, Max. G.V.W.R., 800 pound tongue load
G.V.W.R. limited to ball rating.

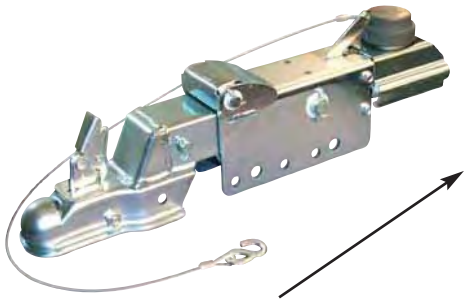
4-Hole Channel Plated	6-Hole Channel Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
4744901		Drum	*NON-STD	28	22	1027100	1777401		CPLR Bolt-On
	4846600	Drum	*NON-STD	32		1027100	1777401		CPLR Bolt-On
	4846700	Disc	*NON-STD	32		4747000	1777405		CPLR Bolt-On
	4846720	Disc	*NON-STD	32		4747000	1777405		CPLR Bolt-On

Un-shaded part numbers do not have solenoids or covers.
Shaded part #'s ending in "10" have solenoid covers only. Shaded part #'s ending in "20" have solenoids & covers.

NOTE: Disc Brake version is available upon request.

*Non-Standard Actuators require minimum 8-week lead time and minimum order quantity may be required.

Model 6 Actuator with 2" Leverlock



A-FRAME VERSION
ALSO AVAILABLE

6,000 pound capacity, Max. G.V.W.R., 600 pound tongue load
G.V.W.R. limited to ball rating.

Mounting	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
STRAIGHT	4845300	Drum	STD	28	22	1027100	1777401	4358400	CPLR Bolt-On
A-FRAME	4845500	Drum	*NON-STD	38	14	1027100	1777401	4358400	CPLR Weld-On
STRAIGHT	4845400	Disc	STD	28	22	4747000	1777405	4358400	CPLR Bolt-On
STRAIGHT	4845410	Disc	STD	28	20	4747000	1777405	4358400	CPLR Bolt-On
STRAIGHT	4845420	Disc	STD	28	20	4747000	1777405	4358400	CPLR Bolt-On

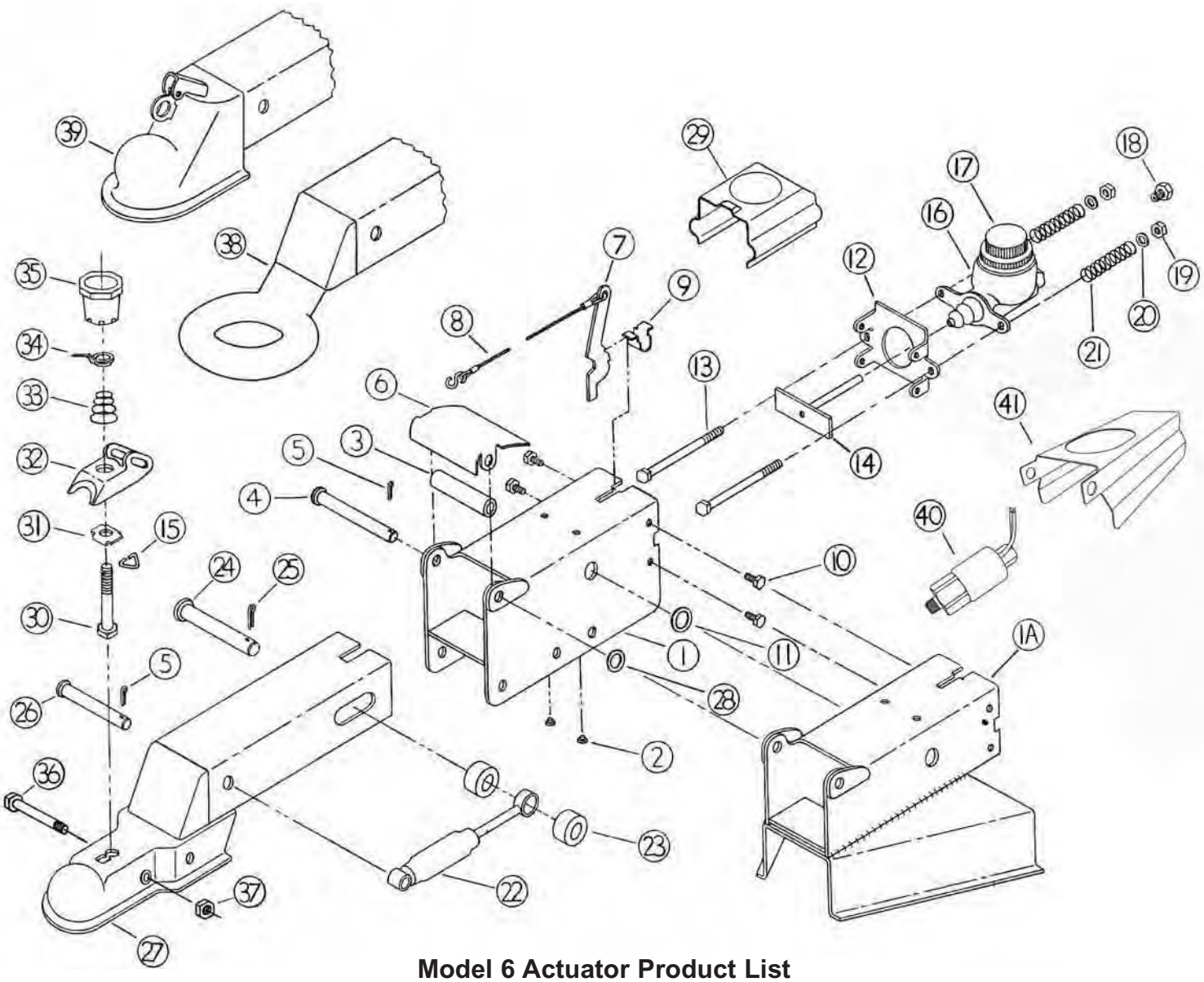
Un-shaded part numbers do not have solenoids or covers.
Shaded part #'s ending in "10" have solenoid covers only. Shaded part #'s ending in "20" have solenoids & covers.

NOTE: For 3" wide trailer tongue or A-Frame (50º)

NOTE: Fits 1⅞", 50mm and 2" ball (some adjustment required).

*Non-Standard Actuators require minimum 8-week lead time and minimum order quantity may be required.

MODEL 6 ACTUATOR PARTS DIAGRAM



Model 6 Actuator Product List

Part # Drum	Part # Disc	Description	Inner	Outer
4079200		2 5/16" coupler	4067700183	2480100183
	4747200	2 5/16" coupler	4067700183	2480100183
	4747210	2 5/16" coupler with cover	4067700183	2480100183
	4747220	2 5/16" coupler w/valve and cover	4067700183	2480100183
4079200317		2 5/16" coupler	4067700317	2480100317
4067600		2 5/16" coupler, A frame	4067700183	2493000
4093200		3" lunette eye	4045600183	2480100183
	4748000	3" lunette eye	4045600183	2480100183
4045500		3" lunette eye, A frame	4045600183	2493000
2480000		multi fit coupler	4391600	2480100183
	4747900	multi fit coupler	4391600	2480100183
2492800		multi fit coupler, A frame	4391600	2493000
4744900		leveler channel	4717600317	4745100317
	4748100	leveler channel	4717600317	4745100317
4744901		leveler channel	4717600183	4745100183
	4748101	leveler channel	4717600183	4745100183
4022300		multi fit coupler	4391600	2493201
4057900		less coupler, A frame	1776900	2493000
1777401		master cylinder w/ mtg brackets		
	1777405	master cylinder w/ mtg brackets		

MODEL 6 ACTUATOR PARTS LIST
(REFER TO DIAGRAM ON PAGE 39)

	Key No.	Part No.	Description	Qty Reqd.
	1A	2480100183	Outer Case Assy	1
	1B	2493000	A-Frame Outer Case	1
	2	1242700	Bearing, 0.030"	2
	3	1776300	Front Roller	1
	4	1776600	Front Roller Pin	1
	5	0799700	Cotter Pin 1/8 x 3/4	2
	6A	1776700	Front Roller Cover #6000	1
	6B	4350700183	Front Roller Cover #7500	1
	6C	4655900183	Front Roller Cover #8000	1
	7	4594100	Breakaway Lever w/Pin	1
	8	1055500	S-Hook - Part of 4594100	1
	9	1780300	Breakaway Spring	1
	10	1781500	Hex Bolt 5/16 x 1/2 Self Tapping	4
	11	1861900	Washer, nylon	1
x	12	1776200	Cylinder Mounting Plate	1
x	13	1027300	Hex Bolt 3/8 x 5 NC	2
x	14	4390500	Push Rod Assy	1
o	15	2496400	Lock-Ring	1
	16A	1027100	Master Cylinder - Drum Brake	1
x	16B	4747000	Master Cylinder - Disc Brake	1
x	17	1755600	Master Cylinder Cap, diaphragm type	1
x	18	1209800	Orifice Connector, 0.015", drum brake use	1
x	19	0797600	Nut - Hex 3/8 NC	2
x	20	0782000	Washer 3/8	2
x	21	1027400	Spring	2
	22	1242600	Damper	1
	23	0829100	Rear Roller	2
	24	1777300	Master Pin	1
	25	0815200	Cotter Pin	1
	26	1777200	Damper Pin	1
	27	4391600	Inner Slide w/ Ball Latch, Bolt and Locknut	1
	28	1831600	Washer	1
	29	1806600183	Cover	1
o	30	* 2338100	Latch Bolt, Multifit Coupler	1
o	31	* 1809000	Lock Plate	1
o	32	* 4335800	Ball Latch	1
o	33	* 4336800	Compression Spring	1
o	34	* 2338300	Hand Wheel Lock	1
o	35	* 2420000	Hand Wheel	1
o	36	* 2339000	Bolt - Hex 7/16 x 2-5/8 NF	1
o	37	* 2339100	Locknut - 7/16 NF thin	1
	38	* 4045600	Inner Slide w/3" Lunette Eye	1
	39	* 4067700183	Inner Slide w/2-5/16" Coupler	1
		1502600	Master Cylinder Repair Kit	1
		4045400	Multi-Fit Coupler Repair Kit	1
		1848700	2-5/16" Ball Coupler Repair Kit	1
	40	4748800	Solenoid Backup Valve	1
	41	4836800183	Back Cover (plated)	1

x These parts are included in the master cylinder assembly # 1777401 & 1777405
o These parts are included in the 4045400 Coupler Repair Kit

Basic capacity 12,500 lbs. G.V.W.R., 1,250 lbs. tongue load
The Model 10 is demountable when installed with mounting channel for 3" width tongue or may be welded for permanent installation. This actuator is available with ball couplers, 3" lunette eye, and adjustable clevis hitch. Usage suggested for recreational and light industrial trailers towed by passenger cars and light trucks. ZINC PLATED (MARINE) MODELS PROVIDE GREATER CORROSION RESISTANCE.

Model 10 Actuator - 2 5/16" Ball Drop Coupler and Mounting Channel for 3" Width Tongue

12,500 pound capacity

Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
1772700		Drum	STD	56	15	2374400	2374600	1848700	2 5/16 CPLR Bolt-On
	2478100	Drum	STD	57	15	2374400	2374600	1848700	2 5/16 CPLR Bolt-On
	4750600	Disc	STD	57	15	4747100	4749501042	1848700	2 5/16 CPLR Bolt-On
	4750610	Disc	STD	57	12	4747100	4749501042	1848700	2 5/16 CPLR Bolt-On
	4750620	Disc	STD	57	12	4747100	4749501042	1848700	2 5/16 CPLR Bolt-On

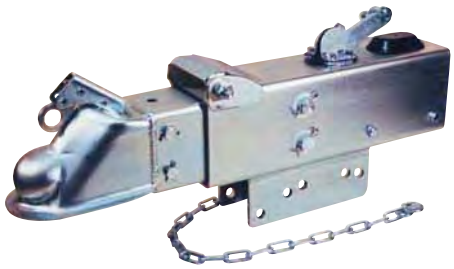
(1) Un-shaded part numbers do not have solenoids or covers.

(2) Shaded part #'s ending in "10" have solenoid covers only.
Shaded part #'s ending in "20" have solenoids & covers.

*Use 7/8" Mounting Bolt.

NOTE: Padlock (Master Lock #30) works with a 2 5/16"" Ball Coupler.

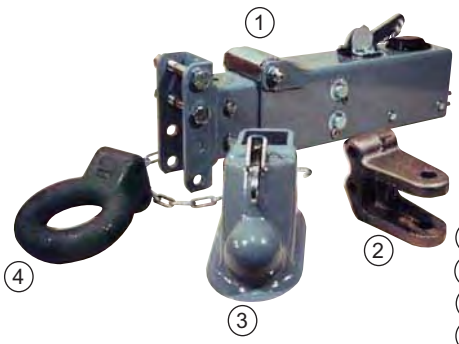
Model 10 Actuator - Straight with 2 5/16" Ball Coupler and Mounting Channel for 3" Width Tongue



12,500 pound capacity

Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
1664300		Drum	*NON-STD	54	15	2374400	2374600	1848700	2 5/16 CPLR Bolt-On
	2477600	Drum	STD	54	15	2374400	2374600	1848700	2 5/16 CPLR Bolt-On
	4750800	Disc	STD	54	15	4747100	4749501042	1848700	2 5/16 CPLR Bolt-On
	4750810	Disc	STD	54	12	4747100	4749501042	1848700	2 5/16 CPLR Bolt-On
	4750820	Disc	STD	54	12	4747100	4749501042	1848700	2 5/16 CPLR Bolt-On

Un-shaded part numbers do not have solenoids or covers.
Shaded part #'s ending in "10" have solenoid covers only. Shaded part #'s ending in "20" have solenoids & covers.
*Non-Standard Actuators require minimum 8-week lead time and minimum order quantity may be required.



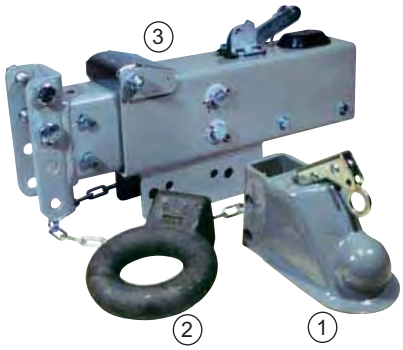
Model 10 Actuator with Leveler Channel

12,500 pound capacity

	Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
(1)	2404600		Drum	STD	45	15	2374400	2374600		Leveler Channel Only
(2)	1607900		Drum	STD	54	15	2374400	2374600		8979 Clevis Hitch
(3)	1890900		Drum	STD	57	15	2374400	2374600	1848700	18820 2 5/16 CPLR
(4)	1891100		Drum	STD	57	15	2374400	2374600		16137 Lunette Eye

Disc Brake version available upon request

Model 10 Actuator with Leveler Channel and Mounting Channel For 3” Width Tongue



12,500 pound capacity

	Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
1	4238300		Drum	*NON-STD	60	15	2374400	2374600	1848700	2 5/16 CPLR
2	4238500	4809800	Drum	*NON-STD	61	15	2374400	2374600		w/ Lunette Eye
3	2324800	4809700	Drum	*NON-STD	49	15	2374400	2374600		Leveler
3		4809900	Disc	*NON-STD	49	15	4747100	4749501042		Act w/Leveler
		4809910	Disc	*NON-STD	49	12	4747100	4749501042		Act w/Leveler
		4809920	Disc	*NON-STD	49	12	4747100	4749501042		Act w/Leveler
2		4810000	Disc	*NON-STD	61	15	4747100	4749501042		w/ Lunette Eye
		4810010	Disc	*NON-STD	61	12	4747100	4749501042		w/ Lunette Eye
		4810020	Disc	*NON-STD	61	12	4747100	4749501042		w/ Lunette Eye

Un-shaded part numbers do not have solenoids or covers.
Shaded part #’s ending in “10” have solenoid covers only. Shaded part #’s ending in “20” have solenoids & covers.
*Non-Standard actuators require minimum 8-week lead time and minimum quantity may be required

Model 10 Actuator with 2 5/16” Drop Coupler Less Channel

12,500 pound capacity

Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
1735200		Drum	STD	53	15	2374400	2374600	1848700	2 5/16 CPLR Weld-On

Disc Brake version available upon request

Model 10 Actuator - Straight 2 5/16” Ball Coupler Less Channel

12,500 pound capacity

Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
1607500		Drum	STD	50	18	2374400	2374600	1848700	2 5/16 CPLR Weld-On
4749600		Disc	STD	50	18	4747100	4749501042	1848700	2 5/16 CPLR Weld-On
4749610		Disc	STD	50	12	4747100	4749501042	1848700	2 5/16 CPLR Weld-On
4749620		Disc	STD	50	12	4747100	4749501042	1848700	2 5/16 CPLR Weld-On

Un-shaded part numbers do not have solenoids or covers.
Shaded part #’s ending in “10” have solenoid covers only. Shaded part #’s ending in “20” have solenoids & covers.

Model 10 Actuator - Straight with Lunette Eye Less Channel

12,500 pound capacity

Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
1607700		Drum	**NON-STD	54	18	2374400	2374600		L-Eye Weld-On
*1664500		Drum	**NON-STD	58	15	2374400	2374600		L-Eye Bolt-On

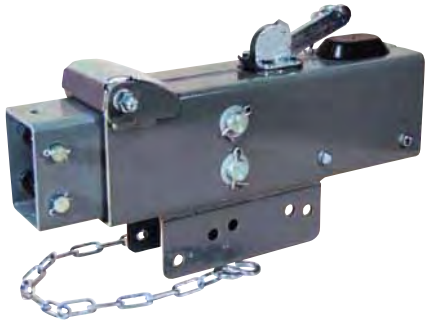
*With mounting channel for 3” width tongue.
**Non-Standard actuators require minimum 8-week lead time and minimum quantity may be required
Disc Brake version available upon request

Model 10 Actuator less Coupler and Channel

12,500 pound capacity

Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
1608000		Drum	STD	41	30	2374400	2374600		Weld-On

Disc Brake version available upon request



Model 10 Actuator - Straight less Coupler, with Mounting Channel for 3” Width Tongue

12,500 pound capacity

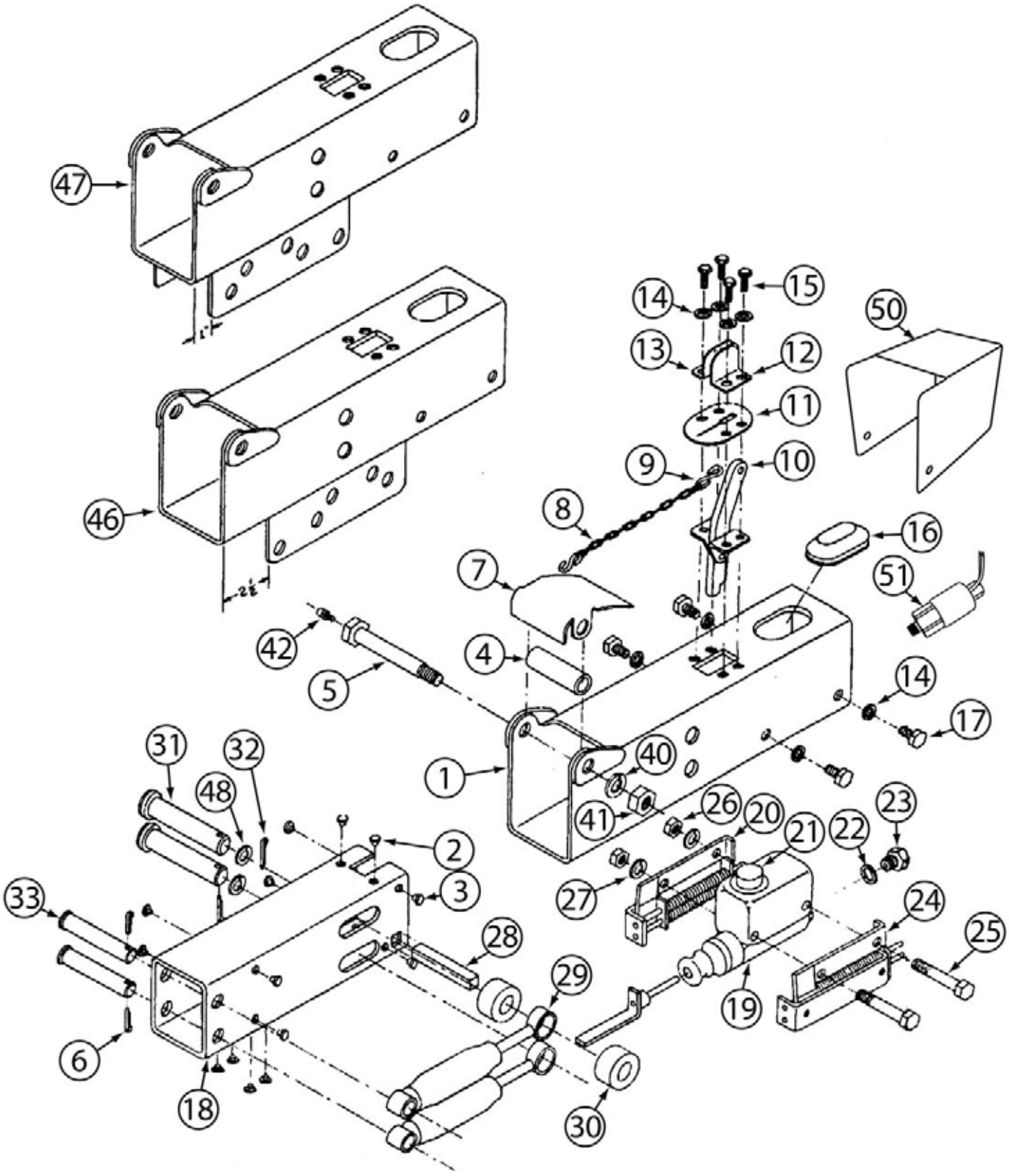
Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
1664900		Drum	*NON-STD	45	15	2374400	2374600		Bolt-On

*Non-Standard actuators require minimum 8-week lead time and minimum quantity may be required

Model 10 Actuator Product List

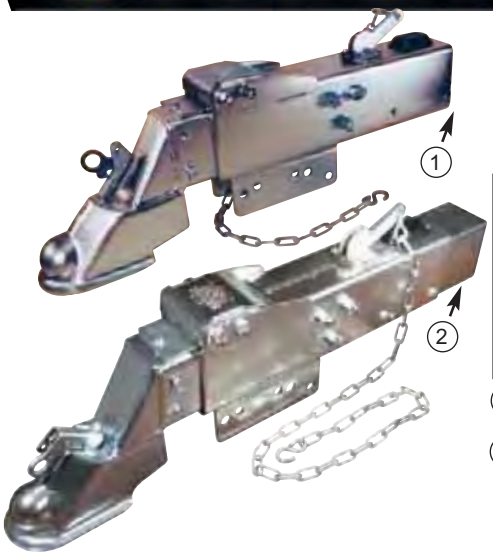
Part# Drum	Part# Disc	Description	Attachment	Inner	Outer
1608000		No coupler, painted	Weld-on	1593300	1601600
2404600	4838000	W/leveler channel, painted	Weld-on	1608700317	1601600
4809700	4809900	W/leveler channel, plated	Bolt-on 5/8"	4721700	2478200
	4809910	W/leveler channel, plated, with cover	Bolt-on 5/8"	4721700	2478200
	4809920	W/leveler channel, plated, with valve and cover	Bolt-on 5/8"	4721700	2478200
	4810000	W/leveler channel, plated,w/lunette eye	Bolt-on 5/8"	4721700	2478200
	4810020	Same as above w/solenoid valve & cover	Bolt-on 5/8"	4721700	2478200
4721600		W/leveler channel, plated	Bolt-on 1/2"	4721700	2477700183
1607500	4749600	2 5/16 coupler, straight, painted	Weld-on	1608400317	1601600
	4749610	2 5/16 coupler, straight, ptd, with cover	Weld-on	1608400317	1601600
	4749620	2 5/16 straight, ptd, with valve & cover	Weld-on	1608400317	1601600
1664300		2 5/16 coupler, 2.5" offset, painted	Bolt-on 1/2"	1608400317	2477700317
2477600	4750800	2 5/16 coupler, 2.5" offset, plated	Bolt-on 1/2"	1608400183	2477700183
	4750820	Same as above w/solenoid valve & cover	Bolt-on 1/2"	1608400183	2477700183
1735200	4830300	2 5/16 drop coupler, painted	Weld-on	2478300317	1601600
1772700	4830100	2 5/16 drop, 1" offset mtg channel	Bolt-on 5/8"	2478300317	1685500
	4837900	2 5/16 drop, painted	Weld-on	2478300317	1601600
2478100	4750600	2 5/16 drop, plated	Bolt-on 5/8"	2478300183	2478200
	4750610	2 5/16 drop, plated, with cover	Bolt-on 5/8"	2478300183	2478200
	4750620	2 5/16 drop, plated, with valve and cover	Bolt-on 5/8"	2478300183	2478200
1890900		2 5/16 adj coupler, painted	Weld-on	1608700317	1601600
4836700		W/leveler channel, 1" offset mtg channel	Bolt-on 5/8"	1608700317	1685500
4238300		2 5/16 adj coupler, 1" offset channel	Bolt-on 5/8"	1608700317	1685500
1891100		3" adjustable lunette eye, painted	Weld-on	1608700317	1601600
1607900		Adjustable clevis hitch, painted	Weld-on	1608700317	1601600
1607700		3" lunette eye, painted	Weld-on	1608600	1601600
1664500		3" lunette eye, 2.5" offset mtg channel	Bolt-on 1/2"	1608600	2477700317
1664900		No coupler, 2.5" offset mtg channel	Bolt-on 1/2"	1593300	2477700317
4238500		3" adj lunette eye, 1" offset mtg channel	Bolt-on 5/8"	1608700317	1685500
4299600		2 5/16 drop, 2.5" offset mtg channel	Bolt-on 1/2"	2478300183	2477700183
2324800		W/leveler channel, 2.5" offset mtg channel	Bolt-on 1/2"	1608700317	2477700317

MODEL 10 ACTUATOR PARTS DIAGRAM



MODEL 10 ACTUATOR PARTS LIST
(REFER TO DIAGRAM ON PAGE 44)

Ref#	Part#	Description	Qty
1	1601600	Outer case, painted	1
2	1020900	Bearing (top & bottom) .125" thick	6
3	1242700	Bearing (side) .075" thick	8
4	1601900	Front Roller	1
5	0828800	Front Roller Bolt	1
6	0799700	Cotter Pin 1/8" X 1"	2
7	1601800	Front Roller Cover	1
8	0776800	Breakaway Chain	4
9	1055500	S-Hook	2
10	1054100	Breakaway Lever Assembly	1
11	1055200	Weather Seal	1
12	1052600	Breakaway Lock - Left Hand	1
13	1052700	Breakaway Lock - Right Hand	1
14	0793800	Lockwasher 5/16" standard	8
15	0794900	Bolt - Hex 5/16" -18NC x 5/8" long	4
16	1507000	Cylinder Cover	1
17	0794800	Bolt - Hex 5/16" -18NC x 1/2" long	4
18	1593300	Inner Slide	1
19	2374400	Master Cylinder, 1 1/4" bore, drum brake	1
*	4831600	Master Cylinder, drum, with 1209800 orifice	
	4747100	Master Cylinder, 1 1/4" bore, disc brake	
20	0838800	Cylinder Bracket, Right Hand	1
21	4830600	Filler Cap with diaphragm	1
22	0774500	Gasket, for use with 1209900 orifice	1
23	1209800	Orifice connector, drum brake, 1/8" NPT	1
	1209900	Orifice, drum, early type, 1/2" NF thread	1
24	0838900	Cylinder Bracket, Left Hand	1
25	0827100	Bolt - Hex 3/8" - 16NC X 3" long	2
26	0797600	Hex Nut 3/8" - 16NC	2
27	1255200	Star Lockwasher 3/8"	2
28	0830100	Push Rod Block	1
29	1242600	Damper	2
30	0829100	Rear Roller	2
31	1593500	Master Pin	2
32	0815200	Cotter Pin 3/16" X 1 1/4"	2
33	1593400	Damper Pin	2
40	0793700	Lockwasher 1/2"	1
41	0798500	Hex Nut 1/2" - 13NC	1
42	0144901	Grease Zerk	1
46	2477700183	Outer case, 2.5" offset mtg channel, plated	1
	2477700317	Outer case, 2.5" offset mtg channel, painted	1
47	2478200	Outer case, 1" offset mtg channel, plated	1
	1685500	Outer case, 1" offset mtg channel, painted	1
48	1861900	Nylon Washer	2
49	2374600	Drum Brake Master Cylinder Assembly complete with brackets	1
	4749501042	Disc Brake Master Cylinder Assembly complete with brackets	1
50	4836100183	Back up valve cover, plated	1
	4836100	Back up valve cover, painted	
*	1018700	Master cylinder repair kit	
51	4748800	Solenoid back up valve, male 1/8" NPT and female	1
		3/8" x 24 NF with inverted seat	
* = not shown			



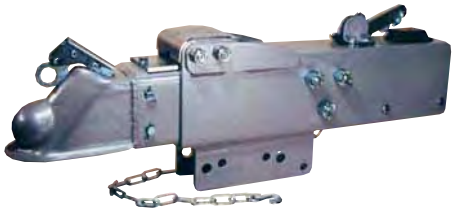
Model 20 Actuator - 2 5/16" Drop Coupler with Mounting Channel

20,000 pound capacity, GVWR., 2,000 pound tongue load

Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
	4042700	Drum	STD	80	12	2374400	2374600	1848700	2 5/16 CPLR Bolt-On
	4750700	Disc	STD	80	12	4747100	4749501042	1848700	2 5/16 CPLR Bolt-On
	4750710	Disc	STD	80	12	4747100	4749501042	1848700	2 5/16 CPLR Bolt-On
	4750720	Disc	STD	80	12	4747100	4749501042	1848700	2 5/16 CPLR Bolt-On

(1) Un-shaded part numbers do not have solenoids or covers.

(2) Shaded part #'s ending in "10" have solenoid covers only.
Shaded part #'s ending in "20" have solenoids & covers.



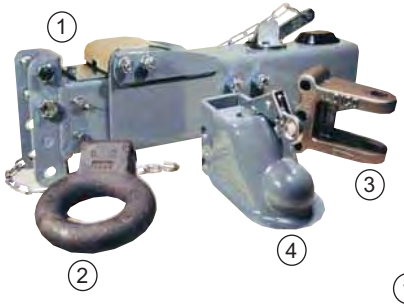
Model 20 Actuator - 2 5/16" Straight with Mounting Channel

20,000 pound capacity, GVWR., 2,000 pound tongue load

Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
	4053400	Drum	*NON-STD	78	12	2374400	2374600	1848700	2 5/16 CPLR Bolt-On

NOTE: Padlock (Master Lock #30) works with a 2 5/16" Ball Coupler.
Disc Brake version available upon request.
*Non-Standard Actuators require minimum 8-week lead time and minimum order quantity may be required.

Model 20 Actuator with Leveler Channel



14,000 pound capacity, G.V.W.R., 1,400 pound tongue load

Part No. Primed	Part No. Plated with Mtg. Channel	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
(4) 1889800	4836600	Drum	STD	82	15	2374400	2374600	1848700	w/18820 2 5/16 CPLR
(4) 4750000	4822800	Disc	STD	82	15	4747100	4749501042	1848700	w/18820 2 5/16 CPLR
4750010		Disc	STD	82	12	4747100	4749501042	1848700	w/18820 2 5/16 CPLR
4750020		Disc	STD	82	12	4747100	4749501042	1848700	w/18820 2 5/16 CPLR

Un-shaded part numbers do not have solenoids or covers.
Shaded part #'s ending in "10" have solenoid covers only. Shaded part #'s ending in "20" have solenoids & covers.
Disc models available with pre-installed backup solenoid.

20,000 pound capacity, G.V.W.R., 2,000 pound tongue load

Part No. Primed	Part No. Plated with Mtg. Channel	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
(1) 1899100	4831700	Drum	STD	70	15	2374400	2374600		Basic ACT Only
(1) 4749800	4821200	Disc	STD	70	15	4747100	4749501042		Basic ACT Only
4749810		Disc	STD	70	12	4747100	4749501042		Basic ACT Only
4749820		Disc	STD	70	12	4747100	4749501042		Basic ACT Only
(3) 1811700		Drum	STD	81	15	2374400	2374600		w/18078 Clevis Hitch
(3) 4749900		Disc	STD	81	15	4747100	4749501042		w/18078 Clevis Hitch
4749910		Disc	STD	81	12	4747100	4749501042		w/18078 Clevis Hitch
4749920		Disc	STD	81	12	4747100	4749501042		w/18078 Clevis Hitch
(2) 1777800	4836200	Drum	STD	82	15	2374400	2374600		w/16137 Lunette Eye
(2) 4750100	4821300	Disc	STD	82	15	4747100	4749501042		w/16137 Lunette Eye
4750110		Disc	STD	82	12	4747100	4749501042		w/16137 Lunette Eye
4750120		Disc	STD	82	12	4747100	4749501042		w/16137 Lunette Eye

Un-shaded part numbers do not have solenoids or covers.
Shaded part #'s ending in "10" have solenoid covers only. Shaded part #'s ending in "20" have solenoids & covers.
Disc models available with pre-installed backup solenoid.

Model 20 Actuator - less Coupler

20,000 pound capacity, G.V.W.R., 2,000 pound tongue load

Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
1055100		Drum	STD	65	18	2374400	2374600		Weld-On
4749700		Disc	STD	65	18	4747100	4749501042		Weld-On
4749710		Disc	STD	65	12	4747100	4749501042		Weld-On
4749720		Disc	STD	65	12	4747100	4749501042		Weld-On

Un-shaded part numbers do not have solenoids or covers.
Shaded part #'s ending in "10" have solenoid covers only. Shaded part #'s ending in "20" have solenoids & covers.

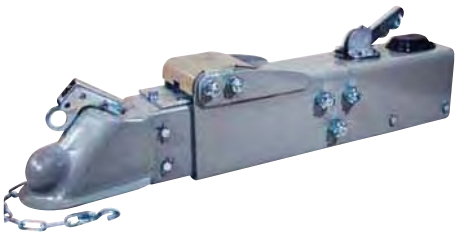
Model 20 Actuator Straight with Lunette Eye

20,000 pound capacity, G.V.W.R., 2,000 pound tongue load

Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
1297400		Drum	STD	79	15	2374400	2374600		L-Eye Weld-On

Disc Brake version available upon request.
Also available with mounting channel.

Model 20 Actuator Straight with 2 5/16" Ball Coupler

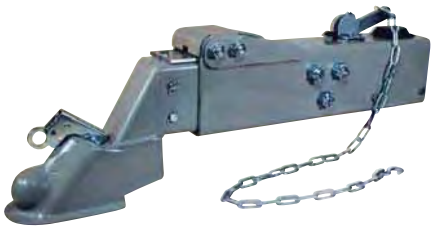


20,000 pound capacity, G.V.W.R., 2,000 pound tongue load

Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
1521000		Drum	STD	74	15	2374400	2374600	1848700	2 5/16 CPLR Weld-On
4750500		Disc	STD	74	15	4747100	4749501042	1848700	2 5/16 CPLR Weld-On
4750510		Disc	STD	74	12	4747100	4749501042	1848700	2 5/16 CPLR Weld-On
4750520		Disc	STD	74	12	4747100	4749501042	1848700	2 5/16 CPLR Weld-On

Un-shaded part numbers do not have solenoids or covers.
Shaded part #'s ending in "10" have solenoid covers only. Shaded part #'s ending in "20" have solenoids & covers.

Model 20 Actuator - 2 5/16" Drop Coupler

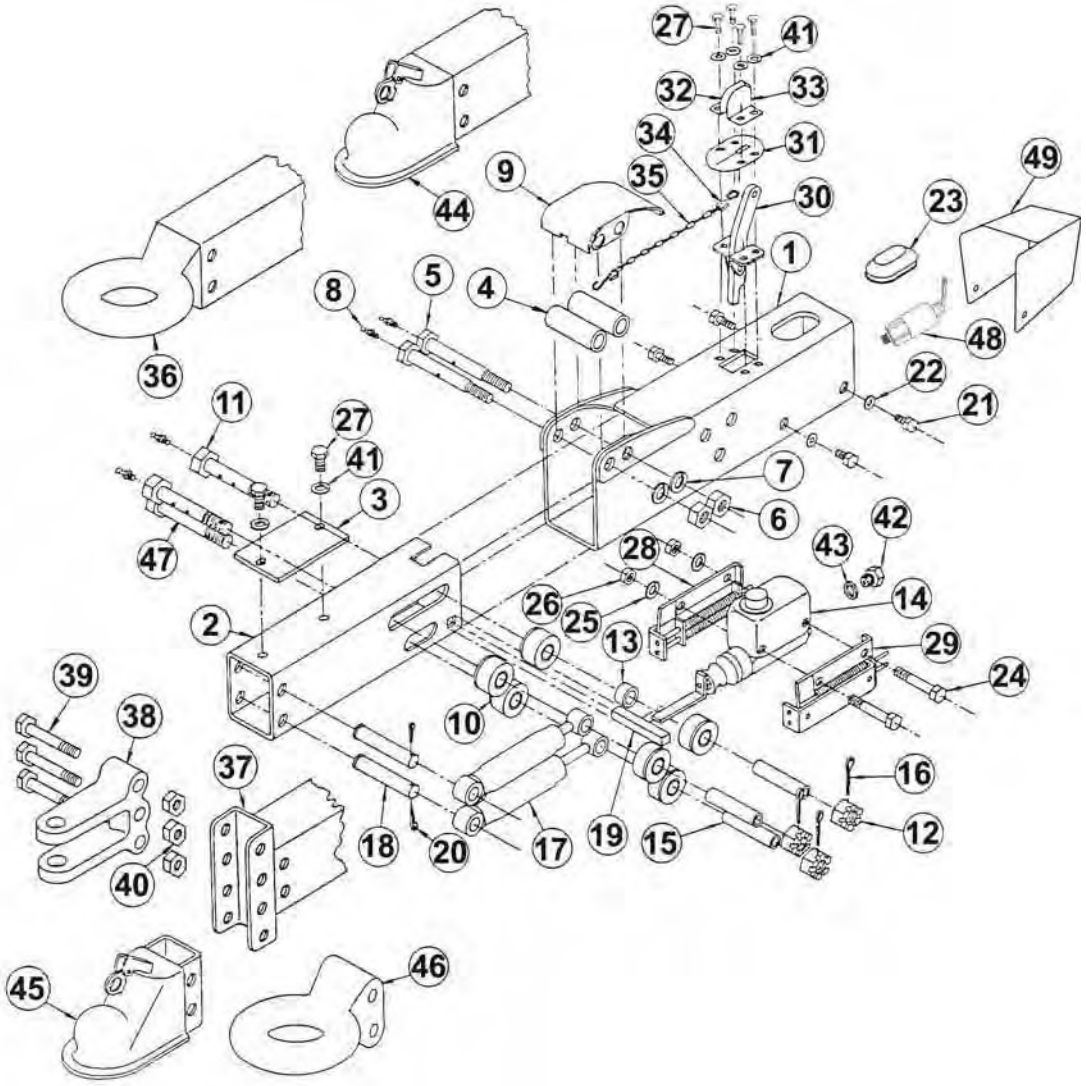


20,000 pound capacity, G.V.W.R., 2,000 pound tongue load

Part No. Primed	Part No. Plated	Brake Type	Standard or Non-Standard	Weight (lbs)	Pallet Qty.	Master Cyl.	Master Cyl. Assy.	CPLR Repair Kit	Description
1735100		Drum	*NON-STD	76	12	2374400	2374600	1848700	2 5/16 CPLR Weld-On
4830400		Disc	*NON-STD	76	12	4747100	4749501042	1848700	2 5/16 CPLR Weld-On
4830410		Disc	*NON-STD	76	12	4747100	4749501042	1848700	2 5/16 CPLR Weld-On
4830420		Disc	*NON-STD	76	12	4747100	4749501042	1848700	2 5/16 CPLR Weld-On

Un-shaded part numbers do not have solenoids or covers.
Shaded part #'s ending in "10" have solenoid covers only. Shaded part #'s ending in "20" have solenoids & covers.

MODEL 20 ACTUATOR PARTS DIAGRAM



Model 20 Actuator Product List

Drum Brake	Disc Brake	Description	Inner	Outer
1055100	4749700	No hitch, painted	1556300317	1055300317
	4749710	No hitch, painted, with cover	1556300317	1055300317
	4749720	No hitch, painted, with cover and valve	1556300317	1055300317
1297400		3" lunette eye, painted	1297600	1055300317
4837700	4841600	3" lunette eye, mtg channel, plated	1297600183	4488300
4831800		3" lunette eye, mtg channel, painted	1297600	1734900
1521000	4750500	2 5/16" coupler, painted	1278800	1055300317
	4750510	2 5/16" coupler, painted with cover	1278800	1055300317
	4750520	2 5/16" coupler, back up valve and cover	1278800	1055300317
1734700	4830200	2 5/16" drop coupler w/mtg channel, painted	4490400317	1734900
1735100	4830400	2 5/16" drop coupler, painted	4490400317	1055300317
1777800	4750100	Leveler channel w/lunette eye, painted	1058200317	1055300317
	4750110	Leveler channel w/lunette eye, painted, w/cover	1058200317	1055300317
	4750120	Same as above w/cover and valve	1058200317	1055300317
1811700	4749900	Leveler channel w/3 bolt clevis hitch, painted	1058200317	1055300317
	4749910	Leveler channel w/3 bolt clevis hitch, painted, cover	1058200317	1055300317
	4749920	Leveler channel w/3 bolt clevis hitch, cover & valve	1058200317	1055300317
1889800	4750000	Leveler channel w/ 2 5/16" coupler, painted	1058200317	1055300317
	4750010	Leveler channel w/ 2 5/16" coupler, painted, w/cover	1058200317	1055300317
	4750020	Same as above w/cover and valve	1058200317	1055300317
1899100	4749800	Leveler channel, painted	1058200317	1055300317
	4749810	Leveler channel, painted, with cover	1058200317	1055300317
	4749820	Leveler channel, painted, w/cover and valve	1058200317	1055300317
4042700	4750700	2 5/16" drop coupler w/mtg channel, plated	4490400183	4488300
	4750710	2 5/16" drop coupler w/mtg channel, and cover	4490400183	4488300
4042720	4750720	2 5/16" drop coupler w/back up valve and cover	4490400183	4488300
4053400		2 5/16" straight coupler, mtg channel, plated	4488400	4488300
4831700	4821200	Leveler channel w/mtg channel, plated	1058200183	4488300
4836600	4822800	Leveler channel w/ 2 5/16 coupler, plated, mtg ch.	1058200183	4488300
4836200	4821300	Leveler channel w/lunette eye, plated, mtg ch.	1058200183	4488300

MODEL 20 ACTUATOR PARTS LIST
(REFER TO DIAGRAM ON PAGE 48)

Key #	Part Number	Description	Qty
1	1055300317	Outer Case, painted	
*	1734900	Outer Case w/Mounting Channel, painted	
*	4488300	Outer Case w/Mounting Channel, plated	
2	1556300317	Inner Slide - No Coupler, painted	
*	4490400317	Inner Slide w/2 5/16" Drop Coupler, painted	
*	4490400183	Inner Slide w/2 5/16" Drop Coupler, plated	
3	0828400	Centering Rail	1
4	1601900	Front Roller, plated	2
5	0828800	Front Roller Bolt 5/8" X 5 1/4" - 1/2" NC	2
6	0798500	Hex Nut 1/2" NC	2
7	0793700	Lockwasher 1/2"	2
8	0144901	Grease Zerk	4
9	0828900317	Front Roller Cover, painted	1
9	0828900183	Front Roller Cover, plated	1
10	0829100	Rear Roller	6
11	0829400	Rear Roller Bolt, 5" X 5/8" NF, Grade 5	2
12	0797100	Slotted Hex Nut - 5/8" NF	3
13	0332800	Spacer	1
14	4747100	Master Cylinder, Disc Brake	1
	4830600	Filler Cap with diaphragm	
14	2374400	Master Cylinder, Drum Brake, 1 1/4 " Bore	1
	4831600	Master Cylinder, Drum, with 1209800 orifice conn.	
15	0829700	Spacer	3
16	0799400	Cotter Pin 1/8" X 1 1/4"	3
17	0778400	Damper	2
18	0829800	Damper Pin	2
19	0830100	Pushrod Block	1
20	0799700	Cotter Pin 1/8" X 1"	2
21	0794800	Bolt, 5/16" X 1/2" NC, Grade 5	4
22	1248900	Star Lockwasher 5/16"	4
23	1507000	Cylinder Cover	1
24	0827100	Bolt, 3" X 3/8" NC, Grade 5	2
25	1255200	Star Lockwasher 3/8"	2
26	0797600	Hex Nut 3/8" NC	2
27	0794900	Bolt, 5/16" X 5/8" NC, Grade 5	6
28	0838800	Right Hand Cylinder Bracket	1
29	0838900	Left Hand Cylinder Bracket	1
30	1054100	Breakaway Lever Assembly	1
31	1055200	Weather Seal	1
32	1052700	Right Hand Breakaway Lock	1
33	1052600	Left Hand Breakaway Lock	1
34	1055500	S-Hook	2
35	0776800	Safety Chain	1
36	1297600	Inner Slide - 3" Lunette Eye	
37	1058200317	Inner Slide - Leveler Channel, painted	
	1058200183	Inner Slide - Leveler Channel, plated	
38	1807800	Clevis Hitch - For 1" Pin	
39	0909300	Bolt, 4 1/4" X 5/8" NC, Grade 5	
40	1040500	Locknut 5/8" NC	
41	0793800	Lockwasher 5/16" STD	6
42	1209800	Orifice Connector, drum brake, 1/8" NPT	1
	1209900	Orifice, drum brake, earlier 1/2" NF thread master cylinders	
43	0774500	Gasket, used with 1209900 orifice	1
44	1278800	Inner Slide - 2 5/16" Coupler, painted	
44	4488400	Inner Slide - 2 5/16" Coupler, plated	
45	1882000	Adjustable Ball Coupler - 2 5/16"	
	4721500	Adjustable Ball Coupler - 2 5/16", plated	
46	1613700	Lunette Eye - 3" Adjustable, uncoated	
	1613700183	Lunette Eye - 3" Adjustable, plated	
47	0829500	Bolt, 5/8" X 5" NF, Grade 5	1
48	4748800	Solenoid back up valve, male 1/8" NPT	
		and female 3/8" x 24 NF with inverted seat	
	4750200	Adapter, 1/2" NF to 1/8" NPT for solenoid valve on early m. cyl.	
49	4836100183	Back up valve cover, plated	
	4836100	Back up valve cover, painted	
*	1018700	1 1/4" Master Cylinder Repair Kit	
*	1848700	2 5/16" Ball Coupler Repair Kit	
*	2374600	Drum Brake Master Cylinder Assembly	
		complete w/brackets	
*	4749501042	Disc Brake Master Cylinder Assembly	
		complete w/brackets	
* - Not Shown			

SAFETY WARNING

BrakeRite and Surge Actuators

1) DO NOT submerge the actuator. Internal corrosion may result and cause brake failure. Salt water, granular fertilizers, and other corrosive materials are destructive to metal. To minimize the damaging effect of corrosion on a braking system used under corrosive conditions, we recommend that the actuator be externally flushed after each use with a high-pressure water hose. Be sure to lubricate all moving parts after the unit has dried. Whenever the unit will be out of service for an extended period of time, or after hard use, remove the brake drums and clean inside the brakes. Pack wheel bearings with grease before the drum is installed. Failure to properly and adequately grease and maintain the actuator could weaken it and/or cause it to fail and result in serious injury and/or property damage.

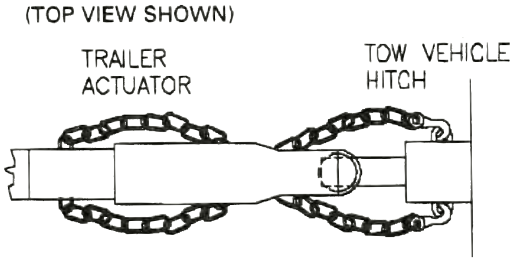
2) Failure to complete the “BRAKE FLUID FILLING AND BLEEDING” procedures promptly after installation may result in internal master cylinder corrosion and cause brake failure.

3) Use only fresh brake fluid from a sealed container. DO NOT reuse fluid. After filling and bleeding, remember to refill the actuator. Failure to maintain an adequate fluid level may cause brake failure.

4) To ensure proper engagement of the actuator’s coupler to the tow ball, DO NOT use a multi-piece ball, an incorrectly sized ball, or a worn/damaged ball.

5) The breakaway system is not designed to operate if the trailer does not separate completely from the tow vehicle, or if the trailer tongue “submarines” and goes beneath the tow vehicle. DO NOT use the breakaway system as a parking brake.

6) The trailers safety chains’ length MUST be set short enough so the actuator’s breakaway cable/chain is not pulled if the coupler separates from the tow vehicle’s hitch but remains connected by the safety chains. The breakaway system should only activate after BOTH the trailer’s coupler AND safety chains have failed and allowed the trailer to completely separate from the tow vehicle. Provide just enough slack in the trailer safety chains to allow tight turns. The chains should not drag on the ground. Safety chains must be used. When towing, AVOID sharp turns which can cause the actuator to bind against the tow vehicle. This can damage the actuator and trailer, causing brake failure. AVOID towing across severe bumps or dips, which may cause the tow hitch to lever against the actuator/coupler and compromise the connection.



Coupler Assembly 2 5/16" Primed

G.V.W.R. 20,000 lbs.

Part No. Painted	Part No. Plated	Description	Pallet Quantity	Weight (Pounds)	Standard Non-Standard
1755000		Primed	75	10	STD
1755000UP		Unpainted	75	10	NSTD

Weld to 3" wide tongue.

Adjustable Ball Coupler 2 5/16"

G.V.W.R. 14,000 lbs.

Part No. Painted	Part No. Plated	Description	Pallet Quantity	Weight (Pounds)	Standard Non-Standard
1882000		Primed	75	11	STD
	4721500	Plated	75	11	NSTD

Adjustable Ball Coupler Assembly

G.V.W.R. 14,000 lbs.

Part No. Painted	Part No. Plated	Description	Pallet Quantity	Weight (Pounds)	Standard Non-Standard
2330900		CPLR w/parts	—	16	STD
4837800		CPLR w/parts	—	—	STD

2330900 assembly includes parts:
- 0897800 Channel (4-hole)
- 0909300 Bolt (2)
- 1040500 Nuts (2)
- 1882000 Coupler

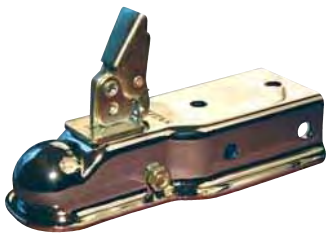
4837800 assembly includes parts:
- 4833700 Channel (6-hole)
- 0909300 Bolt (2)
- 1040500 Nuts (2)
- 1882000 Coupler

2" inch Straight Multi-fit Coupler

G.V.W.R. 5,000 lbs.

Part No. Painted	Part No. Plated	Description	Pallet Quantity	Weight (Pounds)	Standard Non-Standard
2343400		Primed	—	6	STD
	2343400183	Plated	—	6	STD

Fits 1 7/8", 50mm, and 2" balls, G.V.W.R. limited to ball rating.



2" inch Straight Leverlock Coupler

G.V.W.R. 5,000 lbs.

Part No. Painted	Part No. Chrome Plated	Description	Pallet Quantity	Weight (Pounds)	Standard Non-Standard
	4845000	Zinc Plated	—	6	STD

Fits 1 7/8", 50mm, and 2" balls, G.V.W.R. limited to ball rating.

The TITAN HITCH has been designed to meet the need for an adjustable hitch. The channel forming the backplate welds onto the tongue or brake actuator. Rated capacity 2,000 lbs. tongue load.

Lunette Eye 3” Adjustable Unpainted Ductile Iron

20,000 lbs. capacity GVWR.

Part No.		Description	Pallet Quantity	Weight (Pounds)	Standard Non-Standard
1613700		Unpainted		11	STD
1613700183		Plated		11	NSTD

Leveler Channel 3½” Wide

Part No.		Description	Pallet Quantity	Weight (Pounds)	Standard Non-Standard
0897800	4 hole	Unpainted	—	4	STD
4833700	6 hole	Unpainted	—	8.5	STD

Adjustable 3” Lunette Eye Assembly

G.V.W.R. 20,000 lbs.

Part No.		Description	Pallet Quantity	Weight (Pounds)	Standard Non-Standard
1812800	—	Unpainted	—	16	STD
4840500	—	Unpainted	—	—	STD

1812800 assembly includes parts:
- 0897800 Channel (4-hole)
- 0909300 Bolt (2)
- 1040500 Nuts (2)
- 1613700 Lunette Eye

4840500 assembly includes parts:
- 4833700 Channel (6-hole)
- 0909300 Bolt (2)
- 1040500 Nuts (2)
- 1613700 Lunette Eye

Adjustable ¾” Clevis Hitch Assembly - 2 Bolt

G.V.W.R. 12,000 lbs. Use ¾” pin.

Part No.		Description	Pallet Quantity	Weight (Pounds)	Standard Non-Standard
0909500		Unpainted		13	STD

Assembly includes parts:
0897800 Channel
0909300 Bolt (2)
1040500 Nuts (2)
0897900 Clevis Hitch

Adjustable 1” Clevis Hitch Assembly - 3 Bolt

G.V.W.R. 20,000 lbs. Use 1” pin.

Part No.		Description	Pallet Quantity	Weight (Pounds)	Standard Non-Standard
1812200		Unpainted		16	STD

Assembly includes parts:
0897800 Channel
0909300 Bolt (3)
1040500 Nuts (3)
1807800 Clevis Hitch

Brake Flanges

Application Size	Part No.	No. of Bolt Holes	Bolt Circle	Center Hole Size	Center Hole Style	Weight (Pounds)
8½" - 10"	0723800	4	4"	1½"		3/4 lb.
8½" - 10"	0872400	4	4"	1¾"	Round	3/4 lb.
12"	1040800	5	3⅞"	2 1/64"	Round	1 lb.
12"	1040900	5	3⅞"	2 9/64"	Round	1 lb.
12"	1041000	5	3⅞"	2 35/64"	Round	1 lb.
13"	0964700	4	4 13/16"	2" 1 3/4"	Round Square	1 lb.
13"	1042500	4	4 13/16"	2¾"	Round	1 lb.
13"	1241500	4	4 13/16"	2⅝"	Round	1 lb.
13"	1812300	4	4 13/16"	3½"	Round	1 lb.
13"	4019900	4	4 13/16"	3"	Round	1 lb.
13"	4832800	4	4 13/16"	3¼"	Round	1 lb.

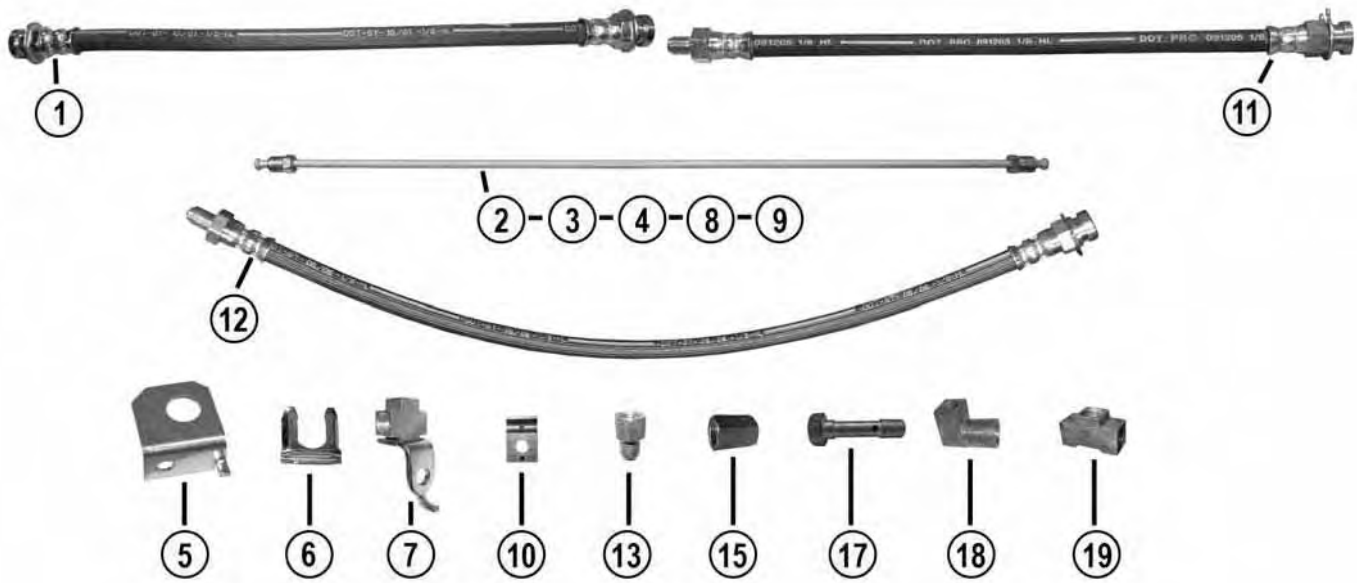
Standard Hydraulic Brake Fitting & Tubing Kits

Part No.	Description
1087100	Single Axle
1087200	Tandem Axle
	Triple Axle
1087400	Torsion
1087500	8 1/2" Brakes
4829900	Single Torsion Axle Tubing Kit
4830000	Tandem Torsion Axle Tubing Kit
	Triple Torsion Axle Tubing Kit

Bearing Buddy

Part No.	Description
4842600	Bearing Buddy (pair)

Hydraulic Brake Fitting & Tubing Kits
Parts Diagram

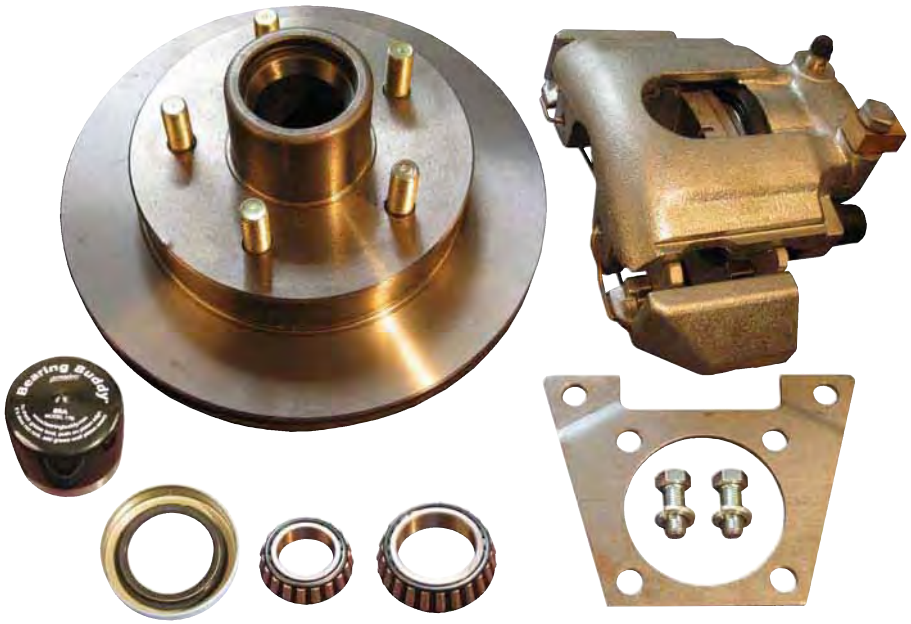


KEY	TITAN PART NUMBER	DESCRIPTION	BASIC KITS		SUPPLEMENTARY KITS		
			SINGLE AXLE 1087100	TANDEM AXLE 1087200	TILT FRAME 1087300	TORSION SPRING 1087400	7", 8 1/2" AND 11" BRAKES 1087500
1	0777300	13" HOSE	1	1			
2	1086500	15' TUBING	1	1	1		
3	1062200	17" TUBING	1	2			
4	1086600	66" TUBING	1	2			
5	0776300	HOSE BRACKET	2	3	2	1	
6	0776400	HOSE CLIP	2	3	2	1	
7	0778500	TEE W/BRACKET	1	3			
8	1086700	4-1/2" TUBING		1			
9	1061900	30" TUBING		1			
10	0936600	CLIP	4	8	4		
11	0777100	12-1/8" HOSE			1		
12	0776500	18-7/8" HOSE	1	2	1	1	
13	0776200	CONNECTOR BOLT					2

NOTE: ALL TUBING IS 3/16" STEEL BUNDYWELD TUBING

OTHER FITTINGS			
15	1287900	UNION	CONNECTS TWO PIECES OF 3/16" TUBING
17	0777500	CONNECTOR BOLT	
18	0777600	90 DEG. CONNECTOR	1 5/32" O.A.L.
19	1060600	TEE	

10” Disc Brake Kits

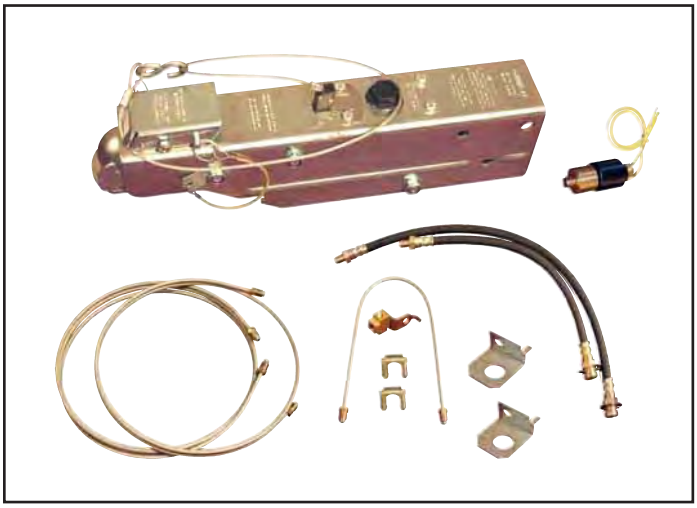


10” Disc Brake End Kit P/N 4843000
For Axle Capacity 3,500 lbs.
Bolt Circle is 5-4.50

Part No.	Description
4841100182	Hub and Rotor
4841201	Caliper
4841202	Caliper
4842600	Bearing Buddy
4840900	Bracket
4439600	Bracket hardware
4840800	Bracket hardware
4842700	Spindle seal
0801900	Inner Bearing
1548000	Outer Bearing

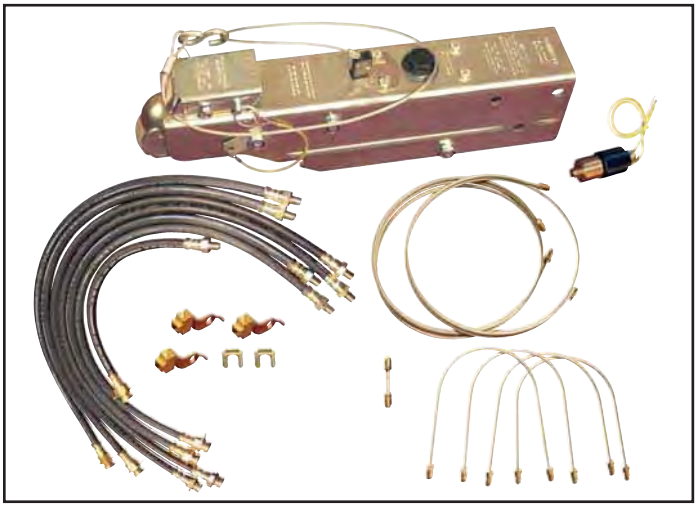
Included in each disc brake kit as indicated.

Disc Brake Kits (cont.)



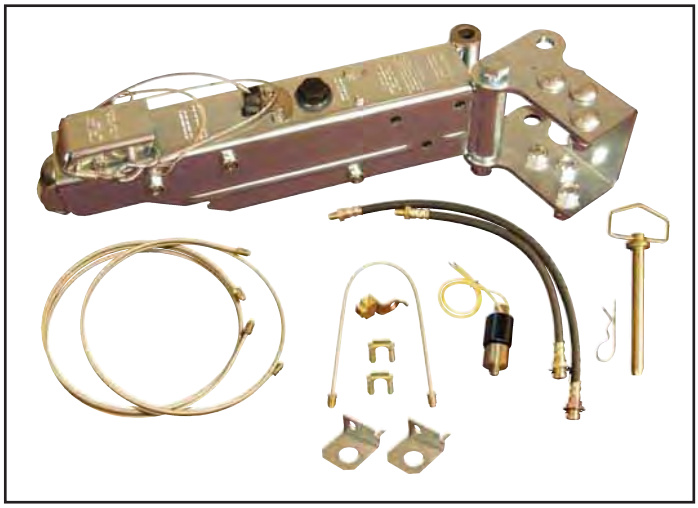
Aero 7500 Actuator - Disc Brake Kit P/N 4843500
Single Axle Kit includes:

Part No.	Description
4606500	Aero 7500
1087100	Line kit
4843000	2 End kits



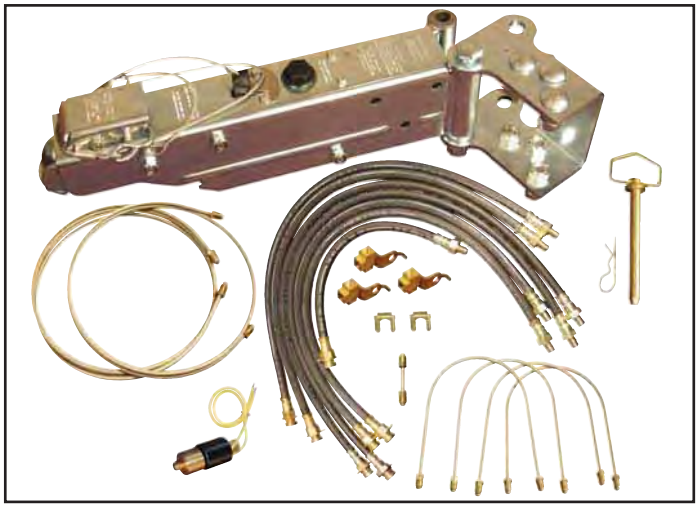
Aero 7500 Actuator - Disc Brake Kit P/N 4843600
Tandem Axle Kit includes:

Part No.	Description
4606500	Aero 7500
1087200	Line kit
4843000	4 End kits



Swing Away Actuator - Disc Brake Kit P/N 4843300
Single Axle Kit includes:

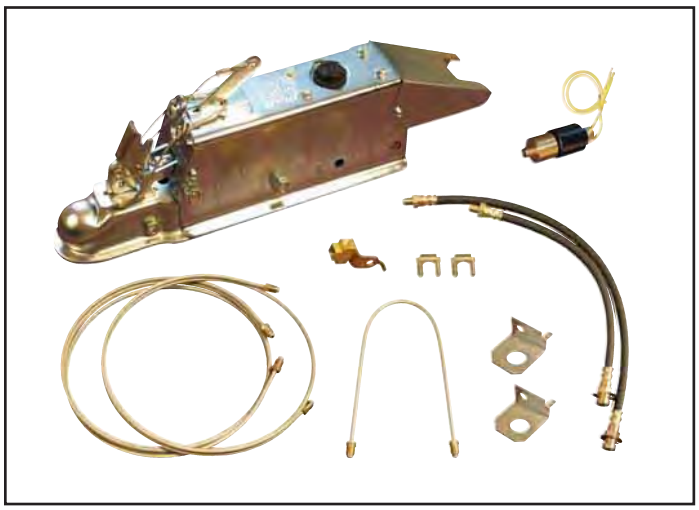
Part No.	Description
4839120	Swing Away bolt disc
1087100	Line kit
4843000	2 End kits



Swing Away Actuator - Disc Brake Kit P/N 4843400
Tandem Axle Kit includes:

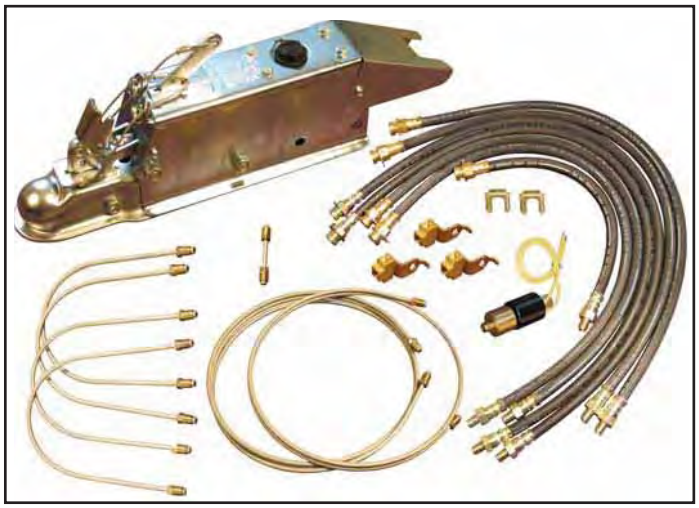
Part No.	Description
4839120	Swing Away bolt disc
1087200	Line kit
4843000	4 End kits

Disc Brake Kits (cont.)



Model 60 Actuator - Disc Brake Kit P/N 4843100
Single Axle Kit includes:

Part No.	Description
4715420	Model 60 with solenoid
1087100	Line kit
4843000	2 End kits



Model 60 Actuator - Disc Brake Kit P/N 4843200
Tandem Axle Kit includes:

Part No.	Description
4715420	Model 60 with solenoid
1087200	Line kit
4843000	4 End kits

BrakeRite - Disc Brake Kit P/N 4843800
Tandem Axle Kit includes:

Part No.	Description
4813100	BrakeRite Disc
4822100	Gel Cell Kit
1087200	Line Kit
4843000	4 End Kits

BrakeRite II SD - Disc Brake Kit P/N 4843700
Tandem Axle Kit includes:

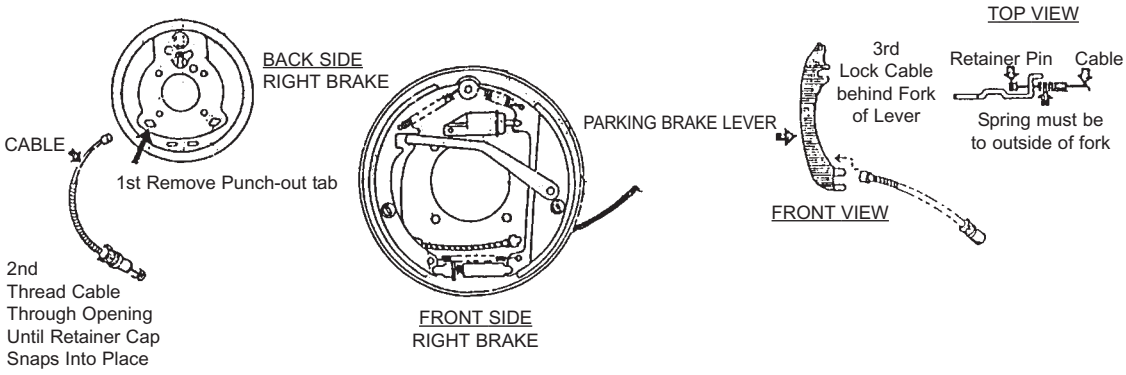
Part No.	Description
4834100	BrakeRite II SD
4822100	Gel Cell Kit
1087200	Line Kit
4843000	4 End Kits

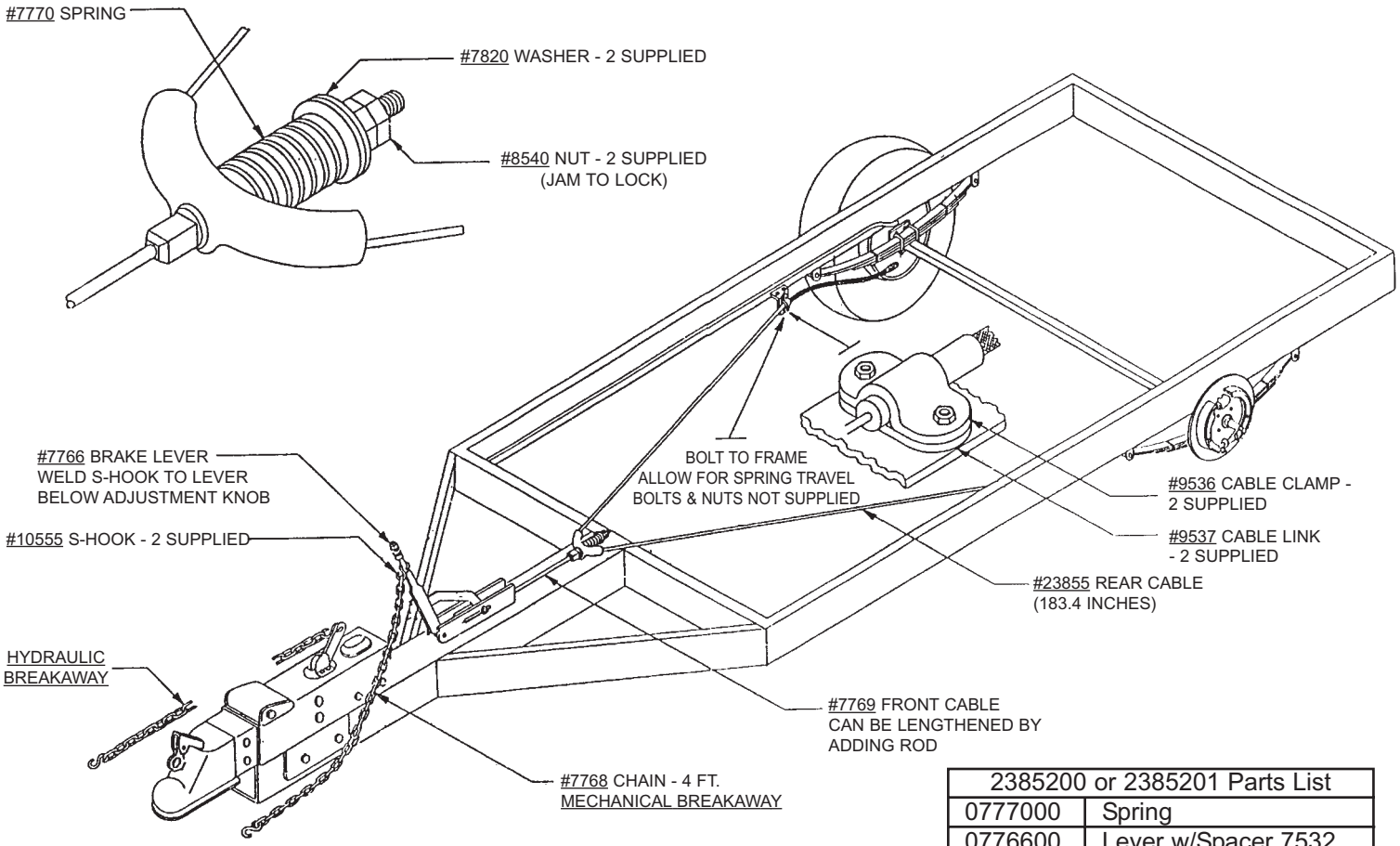
BREAKAWAY AND PARKING KITS: #2385200 and #2385201

* Part Number ***2385200*** is ***183"*** long. Part Number ***2385201*** is ***136½"*** long.

This installation drawing will show how the cable enters through the backing plate and is attached to the park linkage. This drawing also shows the proper layout of the various components on the trailer frame.

In the event of a breakaway, the lever is pulled to the "on" position. The cable type breakaway will stop and hold the trailer indefinitely as opposed to the hydraulic breakaway that can leak fluid and lose pressure.



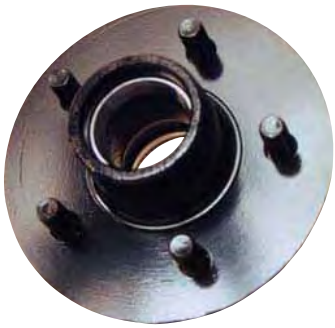


2385200 or 2385201 Parts List	
0777000	Spring
0776600	Lever w/Spacer 7532
0776900	Front Cable
2385500 *	Rear Cable (see above)
0953600	Clamp
0953700	Link
0776800	Chain
1055500	S-Hook
0782000	Flat Washer
0854000	Hex Nut

HUBS (STEEL & CAST)

12832-00CB042

(Steel)



16859-00CB042

(Cast)

40845-00CB042

(Cast)

40191-00C042

(Cast Tapped)

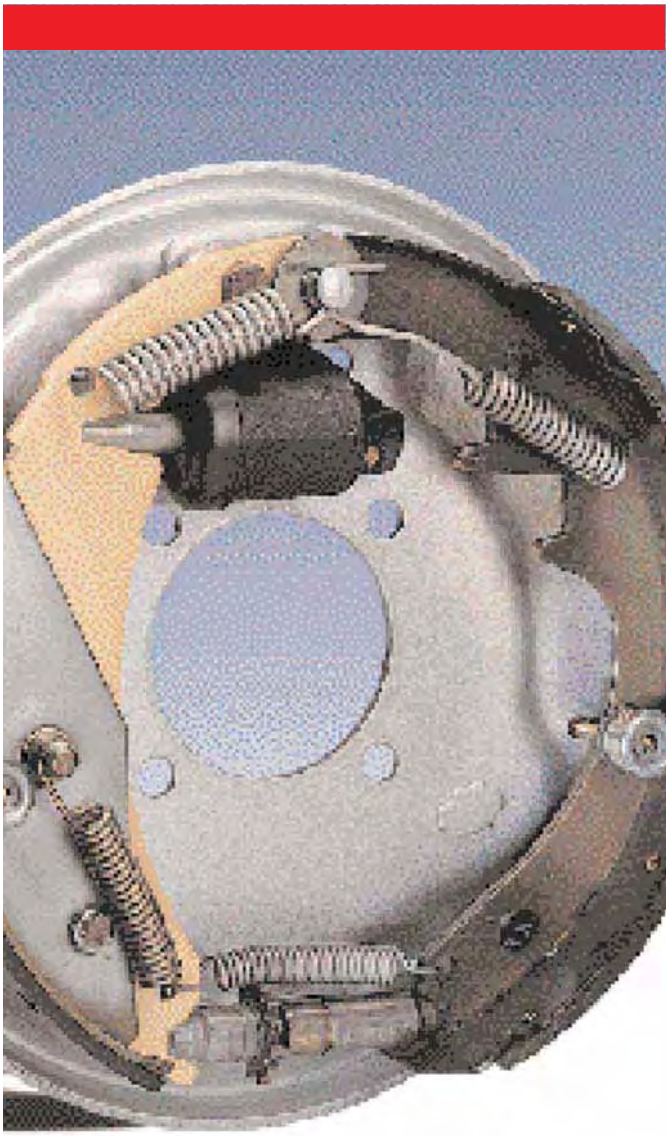
Product Number	Certified Capacity Lbs./hub	Bolt Circle	Tapered Roller Bearing Inner	Tapered Roller Bearing Outer	Hub Length	Flange O.D.	Wt. Lbs.	Studded-Drilled & Tapped	Plt. Qty.	Used With Spindle
A-Frame Hubs (Steel)										
1286800042	500	5-4.50	3/4”	3/4”	4”	5-3/8	4.0	w/parts	180	0423200
1286800CB042	500	5-4.50	NONE	NONE	4”	5-3/8	2.8	Studded	180	
1545000042	1000	4-4.00	1”	1”	4-1/8”	5-5/8	4.0	w/parts	180	0502900
1545000CB042	1000	4-4.00	NONE	NONE	4-1/8”	5-5/8	3.3	studded	180	
1283200042	1000	5-4.50	1”	1”	4-1/8”	5-5/8	4.3	w/parts	180	0502900
1283200CB042	1250/1000	5-4.50	NONE	NONE	4-1/8”	5-5/8	4.2	studded	180	
1544900042	1000	4-4.00	1-1/16”	1-1/16”	4-1/8”	5-5/8	4.0	w/parts	180	1048900
1563000042	1250	5-4.50	1-1/16”	1-1/16”	4-1/8”	5-5/8	4.3	w/parts	180	1048900
1283800CB042	1250	5-4.50	NONE	NONE	3-3/8”	5-5/8		studded	180	
1284200042	1250	5-4.50	1-1/4”	1-1/4”	3-3/4”	5-5/8	4.7	w/parts	180	0434600
1284200CB042	1250	5-4.50	NONE	NONE	3-3/4”	5-5/8	2.7	studded	180	
Cast Hubs										
4019000042	1000	4-4.00	1”	1”	4-1/8”	5-1/2	6.3	Tapped	252	0502900
4019100C042	1000	4-4.00	NONE	NONE	4-1/8”	5-1/2	6.3	Cup Only Tapped	252	
4085300042	1000	4-4.00	1”	1”	4-1/8”	5-1/2	5.8	Studded	252	0502900
4085200CB042	1000	4-4.00	1”	1”	4-1/8”	5-1/2	5.0	Studded	252	
4018700042	1000	5-4.50	1”	1”	4-1/8”	5-1/2	6.3	Tapped	252	0502900
4018900C042	1250	5-4.50	NONE	NONE	4-1/8”	5-1/2	6.2	Cup Only Tapped	252	
4214000042	1250	4-4.00	1-1/16”	1-1/16”	4-1/8”	5-1/2	6.3	Tapped	252	1048900
4214200042	1250	5-4.50	1-1/16”	1-1/16”	4-1/8”	5-1/2	6.3	Tapped	252	
4084600042	1250	5-4.50	1”	1”	4-1/8”	5-11/16	6.6	Studded	180	0502900
4084500CB042	1250	5-4.50	NONE	NONE	4-1/8”	5-11/16	5.0	Studded	180	
4206800042	1250	5-4.50	1-1/16”	1-1/16”	4-1/8”	5-11/16	6.6	Studded	180	0502900
*0508400	1750	5-5.50	1-3/8”	1-3/8”	3-1/2”	6-3/4	11	Studded		0651700
*0508500CB	1750	5-5.50	NONE	NONE	3-1/2”	6-3/4	9.0	Studded		
1686000042	1750	5-4.50	1-3/8”	1-1/16”	4”	6-1/2	9.0	Studded	180	1243400
1685900CB042	1750	5-4.50	NONE	NONE	4”	6-1/2	8.1	Studded	180	
1721400042	1250	5-4.50	1-1/4”	3/4”	4-1/8”	6-1/2	9.0	Studded	180	0710700
1721300CB042	1250	5-4.50	NONE	NONE	4-1/8”	6-1/2	8.4	Studded	180	
*2339900	1250	5-4.50	Tapered		1-1/2”	5-5/8	4			
1699300042	2600	6-5.50	1-3/4”	1-1/4”	4.52”	7-1/8	11.0	Studded		1703600
1699200CB042	2600	6-5.50	NONE	NONE	4.52”	7-1/8	11.3	Studded		
*1617000	1250	5-4.50	Tapered		1-1/2”	5-5/8	4			

All hubs, except tapped, are furnished with stud bolts and cups installed. Component parts of cones, seals, dust caps, and wheel nuts are shipped loose.
Tapped hubs are furnished with cups installed, lug bolts, cones, seals and dust caps loose.
*Hubs not painted.
Some spindles may be non-standard and require lead time.

GALVANIZED IS GOOD

GALPHORITE™ IS SUPERIOR

TITAN PREMIER™ BRAKES



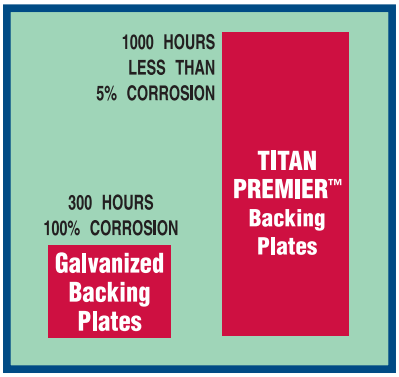
When It Comes To Corrosion Protection, Titan Brakes New Ground

Introducing the most corrosion-resistant marine brake ever made, the PREMIER™ Marine Brake. The backing plate and shoe levers of the PREMIER™ have been protected against corrosion using a process so advanced, Titan backs this marine brake with a two-year limited warranty against operational failure caused by corrosion.

Better Than Galvanized

First, the backing plate and shoe levers are sealed using an electrocoat primer - a patented process that actually uses electricity to permanently bond the paint to the surface of the parts - then the backing plates receive an additional coat of rugged acrylic making them virtually corrosion-proof. The wheel cylinders are treated with hot black oxide, and the internal components are zinc, olive drab plated. Stainless steel springs complete the package.

Galvanized Vs. GALPHORITE



The result is a marine brake so resistant to corrosion, even after 1,000 hours in metal-dissolving salt spray, the Galphorite treated parts show negligible corrosion. Galvanized parts are 100 percent corroded after only 300 hours in this same spray.

You Won't Find A Better Brake — Demand That Your Trailer Comes Equipped With Titan Premier Brakes

Premier brakes don't come at a premier cost, especially when you measure superior corrosion protection in extra miles. It's easy to spot PREMIER™ Marine Brakes. Just look for the distinctive silver backing plates - a sure sign that the latest in brake technology is at work to assure you of continued safe stops in all kinds of conditions.

PREMIER™ Marine Brakes are available in 10" and 12" sizes to fit most boat trailers and feature free backing design for use with Titan surge brake actuators.

1-800-832-8781

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